

<213> Glycine max

<223> unsure at all n locations

<400> 11851

ccacacgcga ccacaaaaac aacaaagcca gaacagacac acaacacaga acaaaccaaa 60  
ccacancncc cagggccgca gttttgaccc ctgagaacac cccgaanagn naaagcccc 120  
gagagcaaga aaaaaancaa cgacaacaaa aacgtttttt atcacaccac ccacaaaaa 180  
agacgggccg ggacggaaaa aaagaaacca cccacanaac caccgaccca cagaagaaga 240  
acaacgcaaa aacaaaacag ccaacgaaaa cacacaaaa cacgacaccc cgggacagca 300  
aacacgcgac gaccgcacaa caggaaacca acaaccgaca aaccaccaca gcgaaaacca 360  
aacgcaaagc aaacaagcng aacacccagc acacaaaaga caacaaagac gacacaaaca 420  
acaaaaacaa cacgacacca aacgacaaac accacacacc cacagcaaga acaaaccaaa 480  
aaacaagcca aaacgcaacc ccaagaaacc caacaacgac gacagagcac aaagaaaggc 540  
aaaccaaccc caaaacaaa acg 563

<210> 11852

<211> 540

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11852

ggggcggaac gaggcgacga cgactgcann ctenggaaat nagccaacgg cccanangan 60  
aagaaananc gagcaaccac acaannatan atagttattg aacaaggaaa acacaagcgg 120  
ggagggagag gagaacggaa ggaacccac caccacacac aaacgaaaga agaagaggaa 180  
gagacggang cgcacganga cggcacacac gaagacacgc agggcgacaa aaagcagcaa 240  
agcaggccag acacacaaag cacgmnaggc gacaccagaa aaacggacac aagcggcgaa 300  
cncccagcca gaancgaaga gcgaacagca gaggcgagca aacggagaan aaaacaagaa 360  
gagaacgcac aacggcagcg gaacaggacg agggccacac aacacgaagg ggnaccaga 420  
aaccgcgaac gaaaagcagg caaaagaacc gacggcgacc acgggccgga accaggacaa 480  
ccggaaggcg cgcagcggga cggagcgac ggaacaaaa gcgagcaaag gaagcaaacg 540

<210> 11853

<211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11853

ccaccaaaac cgcggaagaa acaacgaaac acaacgcgaa aacaccctaa acaaaaagg 60  
 gcggantgac cccgagcacc aaacanaacc caagagacga agggacaagg aaaacaactt 120  
 gtgaccaaac aaaccaacgg ggggggaaag cacacaacac accacaaagg ccaagaaaaa 180  
 acacgcagac aaaaaaacia aagagaaaag agagacaaga agccgagcaa ccaaaacaaa 240  
 acaaccgagc aacaccacac accaacaacac gcgacaacag aagaacacca caagagacaa 300  
 cgaaacggaa cacaacacac agaaaaaaaa ggcaagacaa cagaacacac accaacaaca 360  
 gaacacagcc gcagcaaaaa agaagagaca caacaagcaa caaaaaag 408

<210> 11854  
 <211> 178  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11854

tgccttanat aggcacagaa gggacaaggc atgttatggg gttagttgag ctccggagta 60  
 tgatgagtag cggttttatt gagcgcaagt acactcatcc acagcgtttg cacttcatca 120  
 ggaggggtggg tccgtacta agcggagcct cagcgtacgt cctcagagga gacacgag 178

<210> 11855  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11855

agctntccgt antggtcttc gctagcgaaa tgatcgaaat ggggtctgaaa agaggtatat 60  
 ctgaccatcc tgctttgatg aattcgaaaa ctggggcaaaa tgaagagggt gagaatgaag 120  
 gagaaacca tgctgcaatt gtcattccta tacggccaag tttcccacca acccaacaat 180  
 gtcattactc agccaataac aacccttctc cttaccacac acccagttat ccacaaaggt 240  
 catccctaaa tcaaccataa aaaccacact accacacttc caatcacgaa caccaccttt 300

agcacgaacc anaacaccaa cgaaggaagg aattttgcag cgaanaagcc tatagaattc 360  
 accctaattc tgatgtcgta tgctaacttg ctcccatatc tactcgac 408

<210> 11856  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11856

atgaagctgt ctcggtacaa acgctccctt gcattctata accgnnggat cttctcaggg 60  
 agtggtttgc agcttcagaa gacacttgtc cagcatctga ccattgagat ctttgagaag 120  
 atgtttggag tgtgggagac gtttcagatc ccgagagcat tgctcacttg agcgtatcac 180  
 ctttgctttc atgtagctta ggaaaaatgt catttcttat cttttctttc ttccaaaacc 240  
 attgtcaatg ttccaagctt tgtctccatc acccatagcc accattagcc accacatacc 300  
 gccgttggtc tccgttaaata accccacacc gagagcaacc cttcaaccga agcggaaatct 360  
 tcc 363

<210> 11857  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11857

agcttatgat tctcattcct gngaattctt ggattggatg ctttaagtcca ttggcttccc 60  
 agcccagttc tatacttgga tcatggaatg tgtttcttcc acttcattta gtgtggcagt 120  
 caatggatct atttatggtc acttcaaagg gcagcgggggt cttagacaag gggatcctct 180  
 atccccctat ctgtttgtgc tttgtttgga gtacttttcc agagatatga gcagtctcaa 240  
 ggatgatgcc aattctaaat ttcattccaa ctgtgcaggt attcagctat ctcatcttgt 300  
 ttttgcagat gatattatgc ttctatctag aggagatata ctttctgtgt caactatgtc 360  
 tgccaagctt cagcacttct 380

<210> 11858  
 <211> 368

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11858  
  
 attctataga ttaaacagct aattttctcan attatatcga tcacgttgga gtgactcaat 60  
 agtggatact ctaattcgct ctattataat tgcagtcgta agttattcta tgcataccaa 120  
 gaaaaattat atggatgaaa atgaataata attntacaaa tttaatctta tcattattaa 180  
 tttatgtgta attntgggtt ctcttatcat taatattata agaaatatga gtgaaaaaaaa 240  
 ttattacatt aaaaagctaa aatgataatt attttgaaat aaattttctt tctcacatga 300  
 tgcttggtat gagatggagg gagtattatt ttgtgtgcta atagtacata tcactttaat 360  
 ataacaca 368

<210> 11859  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11859  
  
 agcttgagta cntttgtang gctccaaggc tttccatcag ctctgataaa tctgccatat 60  
 actcagccgg tattaggcct catgagcttt ctcatattca acagcttact ggatttagct 120  
 tgggtgactt gccttgata tacttgggtg ttcccctttt atcatgtaga ttaaattgcat 180  
 gtcattatgc tcccttgctt tccaagatta cttgcctgat tcagggatgg agcaccaagt 240  
 ctttatctta tgcaggtaag ttagagttga tcagagcagt tattcaagga attgtgaatt 300  
 tctggatgga gatttttctt ttgccgcaat ctgttctgga ccaaatacaac gttttgtgcc 360  
 gtaatcttct gtggagcaaa gcggatattg gaaaaaacia gcc 403

<210> 11860  
 <211> 321  
 <212> DNA  
 <213> Glycine max  
  
 <400> 11860  
  
 ctatccacta tatatgagaa atacactgca gcagtaagtt gttgtgctca aaggctctgg 60  
 atgacacaac agctagaaga ctttgaggta atcctttatc acattccttt aatcgattac 120



cataacttgc tttgtgggtg tatggcttaa ggttctctct tcattataat cgattacatg 180  
 ttaggcttac agctttctct ggcattgtgt tctgttgtaa tcgatgactg cctcatttta 240  
 atcaattaca tgctatgggt tatggattct tctggctatg tggtcgtatt taatcgatta 300  
 caaatgcctt tacggagggg g 321

<210> 11861  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11861

agctngttca tttattatgt cttcaaaaga actaggcgat atacatgctc aagaatttca 60  
 cgatgctcat gttcttttac aatcgatcct ttcgtaaaga acaacctgta tggatgcttg 120  
 cacaacttat atatggccca atattagttc ttacctcatg gatttgaaca atatgagttg 180  
 tcctctcttt gagttgattc ttccatttgt caaatgcaaa atgataactg cagctctgat 240  
 cttgtgtccc taagaagatg agcaaaaaaa aaaaaagcca tacgggctcc aattgtgtac 300  
 ataatattta atcaatttga gttgataatt taatgaatgt aggattacct tctcatccat 360  
 taaaagcatc tccaataaac ctctctctgg agtcttttgt atg 403

<210> 11862  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<400> 11862

gaaccactga gacttgctac ttgagtgata tctgtagtca gatatcatct tacattataa 60  
 ctatacactg agaagttaga tacacttaga tctgatctgc tttaaagtga accaaataaa 120  
 aactaacttt atacagcagt atacaacata ctaagaatct ctttgtttat ttaacataag 180  
 aaaagagatt acgctactac tacgtgatca tgagctctat aacggtcagt tattccagat 240  
 ttgggtgttta atacttcaaa ttatatagtg tgaatgtgta taatctctct ctct 294

<210> 11863  
 <211> 406  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11863

agctntattc ttatgttgta ccattgttgc catgttgctc cctttatctc tagcattatc 60  
tcttggaat cttaatgcac aaatgtatat gaaagatcaa tccactacct actctcctgg 120  
tctgcatatc tctagggcca ccaatgttaa gatagttgct gacaaggat atccagggtt 180  
accagtctag gatactgcca aaaagaaagg attctagttc tactacaacg aggagatgcc 240  
ttcgaggaaa atgaaaatgg aaatagtcaa tcaccctcgg aattggggct ccctattcag 300  
tggaagaaaag gcttctctgt gctcttgatg cttatgatgt caggaccttc tggaaccaga 360  
tcctatggat ggacactcag atagcctcca cttctagcta tgatgg 406

<210> 11864

<211> 494

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11864

gaacgctgtt tttttttttt ctttttttncn nnncnnttag ttaagcnnac ngccgngaa 60  
caagacgggn nacactgcac cacgagttca tttatttcta nccaagagcc aaagcgaggg 120  
agcgcaaga gagaagacgc cccacacca caaagaaga gngaaccaga caaacggcg 180  
agncagaacg accccacgag ggacacgaga acgaagaaca aacagagcgc cacgacagga 240  
gacaacacac acacgcagga gacaacccac aacgaggggc gagaacacag acgccgcaca 300  
acgaccagaa gaccaccca cggaaacaac aacaggagac ccaaagaccg gaaagacacg 360  
aaggcggaca ccgagccaga gagcccaggc accacaagag ccaaagcggg agcaggagac 420  
aaggcagaca aacgcgacgc caagcgagaa gccanaagcc aagacaggag aggcaccgac 480  
cagaaagaag cgcn 494

<210> 11865

<211> 408

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11865

agcttactcc cactattacc cacaccaccc accaaaccta tcaatgttaa gaaaatgaca 60  
tcggcagaaa tgcagttgag aagagaaagg ggcctatgct ttacttgtga tgacaagttt 120  
tcccctagtc atcattgtcc taataagaaa tattttgttc tacagtggga agaagaggat 180  
gaacctgcat tacaaccagg tccaccagac gaggttgaga cagttggtga cccagtttg 240  
taagatcatc atttgtctta taatgcttta aaaggctcat caggtcttgg aacaatgaag 300  
tttcaaggat caataaatgg attgggagtg cagattctac tagatagtgt gaggttcanat 360  
aacttctcc agcctagact agctcaatgc ctgaagttac ctatagaa 408

<210> 11866  
<211> 309  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11866

acttgatatg gcctacccaa gcttaaaata ataataacaa tatttgcttt tatnttttgt 60  
cattgttact tatttatgaa tatggtttca gtgaccatga ttgaatctac ttatgagttg 120  
ccaagtataa aattaatccc attgaatcaa ttatatatttc tggtcacctt cttctgattc 180  
ttaggagcta atgattacat tcttccagac ccacctattg tctaataaat tgaagacagg 240  
accagatat gataataaat atggattatg tgaaatgctg actcactttt ggtttacaat 300  
ccattctat 309

<210> 11867  
<211> 391  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11867

agctnngtan aaccaaccaa tcagaatgct agacgaaata tagatgggaa tagaggtaac 60  
aatggcggta atgacggacc gaggcagaac cgggttgagg gagtaaagct caatgttcct 120  
cccttcaaag gtagaagtga tccagatgcc tacctggact gggaaatgaa gactgagcac 180  
gtatttgcct gcaatgacta cactgatgcg cagaaagtca agctagcagc agctgaattc 240  
tccgactatg cccttgtttg gtggcataaa taccaaagag aaatggtgag agaggaacgg 300

cgagaggtag atacatggac tgagatgaaa agggatgatga gaaaaaggta tgtgcccact 360  
agctataaca gaaccatgcg acagaaactc c 391

<210> 11868  
<211> 493  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 11868

nnnctcctt ggttttagacc ttcnnaganc nnantcatan gaaaccaacc nncacagcnc 60  
ttngaccttg gcttggnnag cnnncacttt tttctttatt aaanggagca angcctgggtg 120  
gcgagaagat ggacatgtac ctctctcatg gatcctccat ttgagccttc caccaatttg 180  
ctttcaaagt aaaccttctc caatgtgtca gccaaaggcag tgcccccgat tatgctgaag 240  
ttatatacat aggctgcctc atcaattgca tcaactctgt gcagcacata ctttggttttg 300  
gcacctgcat atgcacccat taattcatct aaataaaatc atgactaatt tcattaattt 360  
tgactatgta ttataattaa cggtttaaata aattggccgc atagtattat tgccaattca 420  
tcaggtcgtt gatattgcaa tacagtacag acaaatatga ctgatgcaat cccagataac 480  
acaccttgat gcg 493

<210> 11869  
<211> 259  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 11869

ccccacaaac caaaaaaaaa aagaacaca tcnaccccg caccgacca aaaaccggn 60  
naaaaagaaa aagttgaaaa aaaaaaagg agaaaaaccc aangagaaga aacgaaaaaa 120  
agagaaagga gagagaagaa agaagaaaac caaacacca ccacaaaaac aaacacagac 180  
gaacaccaa aaagaaacca agcagaccaa caacaacaaa acacacaaca aacaaaagaa 240  
ccaaacaaca caaccacac 259

<210> 11870  
<211> 374

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11870  
  
 tcggacattc gtgtgaaagt tatgatcatt cgaatnnttc aagagcttcc gttgntcaat 60  
 ttctagcgtg tcgacatatt atgcgccaga atagaacatc cgtgtganaa gttaagacca 120  
 tttgaatttc tcaagaactt ccgttggttca atttcgagct tcttgacata ttatgtgccc 180  
 gaatcggata tccgtgtgaa aagttatgac catttgaatt tcgcgagagt ttccgatggt 240  
 taatttcgag cgtatcgata tattataagc ctaaatecga catccgtgtg aaaagttatg 300  
 accatttgaa tttctcgaga actttccgtg ttcaatatca agcttctcga catattatgt 360  
 gcctgaatcg gaca 374

<210> 11871  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
  
 <400> 11871  
  
 agcttgtttg tatcgaacat gcttcgggga gatgcggtga aggatgcaaa atgagccaaa 60  
 agatgcactg tgaaagttgc aacagacaga gggtgcacga gaaactcaag atgtttgcgg 120  
 taagtgcgag tgtactacta ttgcacttca cttagccatg tattgagtaa ctgccttagc 180  
 gagacgatcc gctgagcgag agagacattt ggctttacgc ttcctctctt ggcagccaa 240  
 catgggcccc tgtaagattc tttggcttac cgcgccatcc gctaagcggg agcgagagac 300  
 gtttggttct tcaacatgct cgcttatcgg accgttctac cgagcccaat cccaaattat 360  
 gaaattctta tatatataga actgcgctta gcgcacagc 399

<210> 11872  
 <211> 558  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 11872  
  
 nnnnccttct anccccgannt tgcnangnnn tnctnnncnn natnagaana ancaaccnng 60  
 gcgaccagca cccagaagcc cgatgcnang ngcaaccaat ttgtgtnttt atactatacn 120

cacaccacnc gggggagcgg ggagaatata tcgaattaat acctcctgca cccctcatc 180  
 atacgcatat actattacat ctgtactaac atgacatcgc gatgtcgcgcat ggacatctca 240  
 caatanaaca tcactctgct ctaccttgat cttcagaagt aatatcttgc aatttaacct 300  
 taataactcc acctctaact gtatacatta caccgattgt caacaatgcg agaactacac 360  
 aactatgcc aagagagatct atattccgca tgacgcccac taccacccat gatacagtat 420  
 actgttctat acgcaccatc tcttagactc tgtcaccttc acagacaact atcctccgca 480  
 cttcatacta tatacaattt gatggtgaga tatctaatac aacacatttc acagcacatg 540  
 aatttaatta catgaccc 558

<210> 11873  
 <211> 470  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11873

gacacgccac cagaccaaga agaaaaggaa ccaaaagacc acccacacac aanncggggc 60  
 gacctgaccc cgaaccccg aangaangnc ngggagnnag aggganngag gaaagcagag 120  
 agttggaaga aaaagaagag annaaagggg gggggaaaga aaaaaaana agaagaagga 180  
 ggaagagaga aggggaggaa gaaaaaagag aaaggaaaga aaaagaaaag ggagnagaga 240  
 aggagggana gaaaggaggg caaaaaagaa aaagaggaag agaagaanga aaggaagaaa 300  
 aagagaagaa aggaagagag gagggggaaa gaagggaagg gaaaagaaag aggaagagan 360  
 gaaggaagga agaaaggaag gaggaaagaa gaagagagga gaaganaaaa aaaagaggga 420  
 aaaaggaagg ggaagagagg aggaaaanaa gaaaggaagg aagaagaaaa 470

<210> 11874  
 <211> 194  
 <212> DNA  
 <213> Glycine max

<400> 11874

ataagtagat gcatgtgtaa cacgggggggt aactgcgatg agggagagtc tcgtgagaca 60  
 cagcttaaag atgagcttct ctccctatct cgctcttcag tagcgagctg caccctcttg 120

ctatctctcg ctctgtcatt tactcagatg aggcacccctc tacatgcttc ttatgcacag 180  
ctcatcttgg aggt 194

<210> 11875  
<211> 402  
<212> DNA  
<213> Glycine max

<400> 11875

agcttgatca gctctatagg aacggctttc caggttccgg tgggtggtgcc ggtgggttta 60  
ggattcgaat tcccactggg ttgagcgcgc cgcagcagca gcacccctgga tctgcttcca 120  
aggtgtttgg gaaggttggg aatcagagat tcagcccaa tttgaatcaa aaccctaacc 180  
ctaactcttg gaagaagagg gagagagacc ccgtgggtga agtgggtggct gcgattaagg 240  
tattgggaga tgggtttgtg agaatggaac agatgaagat ggagatggcc agggagatcg 300  
agaccatgcg gatggagatg gaaatgaagc gcactgagat gattctagaa tcgcaacagc 360  
ggattgtcga ggcatttgcc aaggccgttt cggataagaa ca 402

<210> 11876  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11876

actcaagctc ttagctnta tgttgaaagt cctcactacc aaaataggta gcatanatat 60  
ttttgtcatg aagttgcat ggtgatgcat gtaatactgc tggttctgtt atgaatgtcc 120  
catagtactt agaaattaag tgtttcatat atatagaagc caatcaatta aacaagataa 180  
aatgggtctt gatccctcta ttccaattag tatcacttcc taacctcaa ccattgacgt 240  
cccttgcata catgactctt tacatctgga caatcaatgc aaccagtcgc acattgctag 300  
agcatgttat atatgttcat tccacggctc ctgacatgac ttgatcttat atatataaac 360  
caattcaata atgaaatctg a 381

<210> 11877  
<211> 396  
<212> DNA  
<213> Glycine max

<400> 11877

agcttgcttg aggctggggc tttttgcaac gtgtaagagt tctaattaac atttacatgt 60  
aatatatgta aagaagatta aaaagacatt agacaccgtc tgtagtttga gattgacctt 120  
taagatgaat ttcataactt aattaaggaa tctataacaa cttaattatg gtcttataaa 180  
taaaatacaa aataagtggc tcagttcgaa ttactttgca atgctagtat ttttttaaaa 240  
gcattttgct ttgctagcta gtatgaactc ttaagataat atttaatggt actcgagtta 300  
atTTTTTTgg atatgattga tttctcttac tagcattctt atttagataa acaataacat 360  
agcaaattt tctttacata gcctatcaaa aaaata 396

<210> 11878

<211> 476

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11878

ngntgttatt ctccgatata agtgatagaa catgaaatca ggtttgnttt atttattctt 60  
tcgttccatc ggagaaaaatc caaacaataa aaagggttcca gtccactcaa tctctattaa 120  
atatctagac attgtcctac gaattgttgg tattttttgg tatagctttc tatctaaact 180  
agacgagcaa tataattgag caggtttctt taccagcatt tcttttggca ggagatagtg 240  
tattctcctt gctgtttttg ttatctgatg atcaataatc taatatagtt atgaatccta 300  
ataactcttt ctgaataaat gcagggatta tggctggact tgcttttgaa ggtagctgat 360  
tgtttctcta aattgtttga caatgtttac caattntatg aagaacattc agtgcaccgg 420  
tcacaatgac ttggcacttc tccacacttg atagttaggc tgcatttgca tcacac 476

<210> 11879

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11879

gacctctaa gtcacctgct gcatgcaagc tntacactac caagatgatg cagatcggat 60  
ggatggcagt caaattgtta gttgtagact attgtgcaaa ctagttactt gtcaaattga 120



agttataaaa aaaaggagtg ctttcaagtt tttcttacca tttgtagtgt gaaatttgaa 180  
 atgatcttct atatatgaat gaaggagata atagatagat ggagtgggtt tctttttcgt 240  
 tatggctgtg ttgcttagtt tcttctttt tttcgctcgg agtgaaaaag actacatatt 300  
 gtacacattc tattgataac aagcatgtct ttctctactg ctatgagtgg catgccaatg 360  
 atcaagattt tagcaatggc tcttcttggt cttccccaat gaattctaaa agaagaaaat 420  
 caccaattga atcta 435

<210> 11880  
 <211> 193  
 <212> DNA  
 <213> Glycine max

<400> 11880  
 ttacaagcca taactgacaa accatgatat caccttacct ttaaagaatg ttggagctct 60  
 ggaattgctt ctgaaataaa ctgggaataa gtgtgggggg tatgcttcat tggaagatat 120  
 gattcttggc catgcttgat gtatctgaat attgcctagc tcttgcttaa tcttcaaadc 180  
 cttctccaaa aac 193

<210> 11881  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11881

agcttctnng tcnatcaggc caacttacia cagcaagcgc cgagagactc agcataagga 60  
 tgcacatgcc aaagttgagt atgtgaaaag attgtatgac caagtgaagg tgcaattgc 120  
 aaagaagaat gaaagctatg ccaagcgagc caacaagaaa aggaaggaag tggacttga 180  
 acccgatgat gatcctgtac atttgatggc aaatgttgct caagaaggaa ggaatgatga 240  
 gaatcctgat actggacaaa tgcaggctaa aggcccaagt ggagaagggg attggcccag 300  
 gtggagaaaag acgaagtccc cgagtggaga acgatgaatg cccatgtaga gaaagatgaa 360  
 ggcccagagg tagatgcact accaaaacta ttaattattg ctaaa 405

<210> 11882

<211> 325  
 <212> DNA  
 <213> Glycine max

<400> 11882

agcaccttct tcaacagatc tatgtccctc tccacaacac cattctgttg aggtgttctt 60  
 ggcgttgaaa atttatgggtg aattccatgt tcttcacaaa agtgttcata ggactcattc 120  
 tgaaactcac ctccatgatc actgctaatt gaataaatgt agagaccttt tccattttga 180  
 attaccttgg taagtgtgcg aaaaacatcc aaagcttcat ctttggttgt cagaaacaat 240  
 gtccaaggta accttgagta atctocacta ttaccaagct atagtaattt ctccctaacct 300  
 atagctctta aaggacctat aatca 325

<210> 11883  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 11883

agcttgctta ttcattggaag ctccataat ctccataact ttttgggggtg ggccattctt 60  
 ggatggcctt gatttttctca gggctccactt aaaaccatt tctaccaact acaaacccta 120  
 agaaaaatat attatctaca caaaagggtac acttctctat atttgcatag aggggtgtttt 180  
 tcctaaggac tgaagaactt gcctgagatg ccctaagtga tcatctagge tcctactgta 240  
 cactaaaata tcataaaaat aaacaactac aaatctacct atgaaatccc ttaagacatg 300  
 atgcataagc ctcataaagg tgcttggtgc attagtgage ccaaaggca tcactagcca 360  
 ttcatacaaa ccaaacttgg tcttgaaagc ggttttccac tcat 404

<210> 11884  
 <211> 113  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11884

agctntaatt tatgtggcag gccactacat ttcattatga attntatcta tttatacctt 60  
 aattggaaac caaattatct taaattaatt ttttttttaa attacattct aag 113

<210> 11885  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11885

actcctacat gatgatgcat gatacacata tgatttatag tgactaagat gcaacanaca 60  
 atacagcaat atagagagtg gngcatgtaa aagataaatc ttcttcaagc tcttcttcaa 120  
 gttctaaggc taagtcttca tgttgctccc ctatccctaa cataccctat gcaatagtaa 180  
 tagtagactc taaagtccan atattgaacc caaggaccag ggtatncaca gttaaaaaga 240  
 aaatagatta aatcctttt 259

<210> 11886  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11886

caagcctnccg atttattgca ggtagcacca gacatctcta taaagactcc ttatgaaatg 60  
 cacatcacct atttttctat tctcagcatt gacttaggaa tatagtcata acctgtacaa 120  
 gaacaggat gagtgggagt agaattctgaa ccgccatcag aacatacata ttttctcag 180  
 ggcccgtgta actcgatcat agagttcggg atcactctaa tcaactcgga gatgatagtg 240  
 atgcacaggc gaaaatctct gatgtcttca ttgatgtctt tctattgcaa gaagaaatgg 300  
 atgcaatggc aacttttagt tegtctcagt aaaaccagtg gattcaattc agcttttcct 360  
 gattattaat aatgtcttat tggcgtaatc tacttctgat aagataacag tttcatattt 420  
 tgcttctg 428

<210> 11887  
 <211> 504  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11887

naaccctctg ttgngngaac gtttgangna cncctncnca natnagtnaa gcnaccncgc 60

gctgctagca agaactntat ctctnggaag aggtttgtaa tctgtgtggn.cagccaaggc 120  
 aacagtgcc aattggcaaaa ctgaatgtgg ctcatacca aaaactgcat gttgggcaca 180  
 ctgttgttac aatgaaagag ccacgaacaa aagatacaag taaacagtat tccaatgact 240  
 tattaggcaa aattatgcag acaaattaac ttcaagactc cattcaaaat aggaaacaga 300  
 ttctatgttt cttctaatat atgtttccat ttcaagagag ttcattctat gcagggaata 360  
 gggagctcaa acaaaccata agcacgggta ggatcaaagg ctctcatatc ctctacgtga 420  
 agcgtgatcg gaaggtaatt gcaagcgtgc ttgcatatga acctgaaatg taccaaaata 480  
 ccaatagtga gatttatgag accn 504

<210> 11888  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11888

agcttattaa ttgaaagttg ttctattgga agatcagata aacaaacatg caagtatcat 60  
 tcctagaacc tacattctat tccattgtga ctttacatct aatctgactt tagttgtgtc 120  
 caatgtgac aacctagagc atatttgtat ttttactctt gcatgcttag ctttaaaaac 180  
 tagtgccaat tttgaatatt tttgagcaaa aacattagtt cttagtattat gcgtatttta 240  
 tgtatacaat tccttctgtg tgtggcagtt gagagggtgg aacgagaagg atgatgttgt 300  
 agctaaatgg aagaaagtgc anaatgatat gtgcctacat gctcattgct ttgttagtga 360  
 tccaattcc ttcttgatt tggctagtga attgagatat cacatat 407

<210> 11889  
 <211> 449  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11889

aggactcaag ggagttagtg tggagattac tctnggatgg ngatgatgct attctgngac 60  
 ttgcatgaga aggacctgtt tgagaagtat ttcacacggc ttctggcaaa gcaacttttg 120  
 tcccgaataa cagtctctga taatgcagaa agaagtctca tagttaagct caagacccaa 180

tgcagttatc aattcacctc taaattagag ggcattgttta cagacatgaa aacctctcta 240  
 gaaacattgc tgaactttta tatgccaacc accccgagtt aagcaacggg cctacgcttg 300  
 ccgtgcaggt ttgacaaca gggttttggc ctactcaatc tactgttaca tgtaacctgc 360  
 cagaagatat ctcttcactt tgtgagaaa ttcagtcata tattaccttg gcacacatac 420  
 tggcaggaga tngtctgca nactaatat 449

<210> 11890  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<400> 11890  
 agcttatcta cttataaatc acgtgatcat gaattccgaa atataggggg agtaaacgca 60  
 tgcacattgt atctatatac aattgtttgt tgcttgcttg aatcttgatt tcagggtattg 120  
 tattgtcatc atcaaaaaag gggagattgt agatgcaatt gcctttgacg ttttgatgat 180  
 gatcatgatg atgtgttgca attgatgcaa atgggctttt caagattaaa attcaagaca 240  
 atacttcaag attacaagtc acaacatcaa gatgattact agaattattag gaagggaatt 300  
 cctaattgaa ttagcaaagg ttcggccaag tgatttgaat taaaaaagtg tttcgcaaag 360  
 gttttactct ctggt 375

<210> 11891  
 <211> 493  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11891

agnnccctcg gggaggcctt aagnnatgca tncacactat agattactca acctngagat 60  
 gaagaagggt tgaagggtga aacttcctgt tttattcggt gaccacagag tggtagcttg 120  
 agatatgtcg cgnggtgcaa gagaccttgn ggacgtcagg tggngtgcta ttgccccaaa 180  
 ccaagcttga ccaatcccgga cccaaccggg gcatagtcgg tcagtgagaa cttgtgatgt 240  
 acctaaacag acgagctcct ggcagtcaac agataaaagg acaaagacc acaaagcaag 300  
 gaggcttggt gtggctggcc agctgcgaat attgtgtgat atatgggttg tggcctctgg 360  
 taatcgatta ccaagggtgg gtaatcgatt acaaggctta aaaatgaaaa caggaggcta 420

agatggtctc tggtaatcga ttaccaacgg gtgtaatcaa taacacagct tgtaacgatg 480  
acacgacacc acc 493

<210> 11892  
<211> 575  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 11892

caccacccgc gccttacgag ccgacacgag gagacangcg aagtcgccga caccgccaac 60  
acagacacac caactcanna cnaannaaaa annnggcgga gacgagccct cgaacaccca 120  
cnnnttngaa aannnccnng gggnnnnannn nngggnnnnnn ngnnnnnnnnn nnttttggtg 180  
ngggagaagc gaaaaaagng gaagggggag gaagagagag anagagcgaa ggaaccaaag 240  
ggaggaagag ngaagggaaa gagcgaagag gaaagagaga ggagagaaga agagaaaaaa 300  
caaacggagc aggcaaagc cgaaccgaca gacacacca cgacggcaac caccgcgcaa 360  
cacgaaaaac tcacaacaac acaccgcagc ggacacgacg aaaaccacaca cacaccacca 420  
caccaagcac agcggacgcc caagcgccac gcaacgccac acagacagaa cagccagaga 480  
gaacgcgaca cagaccggg aaccaccaac agcacacaaa cggccgcaag cagccgaaca 540  
acacacacca caccacacg ccaccaacc aagac 575

<210> 11893  
<211> 343  
<212> DNA  
<213> Glycine max  
  
<400> 11893

atctatatat ggtgtattac aagcctcccg tcagtggtag cttatgtttc atgggataat 60  
atcttcaggt ggttttgatg ataatcccat gcataaatgc atataccaca tagttagagg 120  
gagtaaaata tatattcttg ttttacatgt atatgatatt ctactagcag ctaatgatcg 180  
gggttgctca catgaggtga aacaatttct ctctaagaat tttgacatga aggatatggg 240  
tgatggatct tatgtcatcg acattaacat tcatacagat agatctctag gtattttggg 300  
tctgtcacag gaaacctata ttaacaaaat tttagacaga ttt 343

<210> 11894  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11894

agcttgcata gttagaaata tcttggttga ttccgatggt gtgaagtcaa ggaaagattt 60  
 ttctattgcc atgatgaggt catctatagt tttaggagcc tctttgtgtt gtaatgactg 120  
 aatggcatta aagaagccaa gatctaagac attaaaatca agcaagtttg ggggttgaga 180  
 aaccaatcga atgtcaaaac cgccttcact agcagcttaa tggaagtcgt tgtcatcttc 240  
 atcaatgtga catggagcat tgtcttggtt tatgaaaata gtttctcttc tatcccctat 300  
 tggccatttt gctttgattg cagacaacac atgatgaata agaaaatgtt tgcttacttg 360  
 cttatttatt gaagaatatt ggtntcgttc catagtcctt 400

<210> 11895  
 <211> 492  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11895

nnncctcttt tccaatttgc anagatcgct cnnncnnata gaananacaa ccccgcggnn 60  
 gctgaggatg aaattcgaag actaaaactt tattatttta tgatcnaact ctcgagaagg 120  
 gggatgtatt tatatcatac aaacagcgcc atgattcaat acctctatca aaagcattga 180  
 tttgtatagt tagagtgttt ttcttcttgg ttctagatag tagatactaa acaaaaaacat 240  
 actaatacca aggggggtcta gctcagatgg ctgagcacgg tgcgtaaagtg ttgtaaatct 300  
 cctgatacca tgttcaattc ctatggatta aataaaacac caatgagacg ctttaagtta 360  
 tgaattatag cataagggaa gtctactaac gccagcgtgg cttgtgtgga ctttcagatc 420  
 tgtccgcgct aagataatta cctaaaccct tatgtttata tgagacatga acatgatctc 480  
 catgagctat cg 492

<210> 11896  
 <211> 572  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11896

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 ccgagganga ctctagaang cgagcttgac aagcgaagca aancncacgg gtgngcgtac 120  
 ggacaagaaa cagcacggcn gcacacgagg gcggcatgtg tgagaaagac ataacgcccc 180  
 caccgcacac ggacgcgaac aaagggagat agacgcgacc atccgagtgc gccgaactgg 240  
 agacaaagag agcgacggta cgcgcaanac gagaaagcgt cgataccgac agcgagtgcg 300  
 aggaccacga agaggcgac gaagcgagag tgcgaagcaa gaagcaagcg caacagcaca 360  
 ccgggacacc cacaacgcca acacgtaagc ggagagaaga cccaagggac ggggacagag 420  
 caacgcgcat ggggaagccg aaaagaaacg ggggagaggg aacaggacgg gccaccgacg 480  
 agcgacaagc gtagagcgta agggacggcg aacggcgaaa ccgacgggca cgcacggggc 540  
 aacagcgacg accgaagcag gagcgaaagg cg 572

<210> 11897

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11897

cccaggcttt gcggtagaac tgggtgcatg aagctaagca cctgncatgg cggctaagct 60  
 gaattccttg cgggactgta agcgctaagt gagtccttat cagctaagcg catacttctc 120  
 tataactcaag atgcatcatt ntagctaagc tggcccagaa cccggcttag caacagttgc 180  
 atcttttcta atctgcagac ctgcgtaagc ggacttatcc gcacgctaag tcaagcctgt 240  
 gtgctaaaaa aaaaacttga atttcatagt taggctaagc gcacgggtgcc gcanagcgag 300  
 catcttcgaa naaccaaacg tcacttcgag aaagcaaaat ggcttatgtg agtghtaacgg 360  
 caactactct cacatttggt ggaaactgat gtattgcttg catcntctct cttgactca 419

<210> 11898

<211> 401

<212> DNA

<213> Glycine max



<223> unsure at all n locations  
<400> 11898

agcttcttat aagctgaacc attttatcaa taaacacaag ttgagtttta ttcagaaaat 60  
tagagtttat ctcttttata ttagtgagag tgattctcct aaattcttga gtgattcaag 120  
aacaccttgg ctgtatcaaa ggactttcac aacctttgtg tgttgccctc gctggaaaga 180  
gtgattcttt ccttcctttc atcatcacc ttgttctttc aaccacaaat tccaaaaaat 240  
ccacctctgc ccagaattat ctctgtggcca taactcccat tntacgcact caaattaagt 300  
gattcttgag cctaaattga atttcanaac gagacctttc acctcgttgt ggaatcacct 360  
catttgagc cctgtagctt cagntattgc catttctata t 401

<210> 11899  
<211> 313  
<212> DNA  
<213> Glycine max

<400> 11899  
ctggggtcaa ttacgagtgt cgcgatatcc tacggcacac aataggacat ccgaatcaaa 60  
agttattacg tgggactgtt cctagagctc ccgatttcaa tctctagcgt ctcgatatat 120  
taaggggctc aatcggacat ccgagttaa agttattgtt gctcgacttt tcttagagct 180  
tccgctgtca atattgagcg tctcgatata ttacagggct cgatgcgaca tccgactcaa 240  
aagttattgt cgttagatct ttctcagagc ttccgttttc aattacgagc gtctcgatat 300  
cctacaggac aca 313

<210> 11900  
<211> 228  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11900

agcnnttang tggttgaagt gtatgtggaa gagggggtgt ttgacaaatc tgaaaaaaag 60  
ttgaatgatt ttaagggaga tgaggttggt gtaattgatg gagtggaggc tgaaccagtt 120  
gtggagggtg aagataaggc tcaggttcaa ctgatgagg aaggtttggt ggaggttgag 180  
gtgcaggatg aagatgaggc tgggtgttga cgtgagatgg aggttggt 228

<210> 11901  
 <211> 499  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11901

ntgtgataat tagcactcaa gggaggtaga actaagaact ctgtgtctca gactactatt 60  
 caatattaca aagtcaaggt tatgataaaa ataaaaaact atactccctc ttttctcana 120  
 tataagggaa aaaatgacat actaactaaa aaaagttact taaaattttc ttatatttga 180  
 gaccaaaaac aatgtgtttc cccttctcat atttgagacc agagaaggag taactcatta 240  
 gattccaaac cacatgcaat gtatctacca taacagataa gtccatgaaa tgcttaccaa 300  
 tctgatcaat ctggtgattg atcataatta ctgaaatcct ttgtaaatcc aaatcttaaa 360  
 aggtgggcct aagttattgc ttttgaaatc tactggaact attcaatata nagagaatgt 420  
 tcagaaatga acgaacctca accaaaatgc caagtttcat actcntttct taaggcaaga 480  
 atatatatgt tgaaataat 499

<210> 11902  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11902

agcttgnat gnttttttct ttcgatcaaa gcagagtatg gtgtatctgc atcaacaagt 60  
 aaatatctta ttgtgaagtt cttagagaat tggccttgac caaaagtggc cattaggtcc 120  
 acgtagcctc aggtctctac tctttcgctt gcaaagccaa ggagtggacc gacgtgagga 180  
 tggacagtgt caggggagac ctcgagtctc tggaaagttt tccagtatag gatatcattg 240  
 gagcttccct ggtcaatgag aaccttggac accatgaaat ttgcaatgat gatggagaca 300  
 accatgtggt cgtcctgggt gatggggttg atacccttga agtccctatc cgtgaaagtg 360  
 ataggaggga gactttattg tgatggtgca ttgacgaaat tgatgt 406

<210> 11903  
 <211> 495  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11903

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ccattcttgg atggccttga ttntctcaag gtccacttgg accccatttc taccaactac 120  
aaaacctaag ataactatat tatctacaca aaaggtacac ttctctatat ttgcatagag 180  
gggtgttttct ctaaggactg aaagaacttg ttgagatgt cctaagtgat catctaggct 240  
cctactatac actaaaatat catcaaaata aacaactaca aatctaccta tgaaatccct 300  
taagacatga tgcataagcc tcataaaggt gcttggtgca ttagtgagcc caaaaggcat 360  
cactagccat tcatacaaac canacttggg cttgaaagca gttntccact caatcacctt 420  
tttcatnctg atttggtgat accactttaa gaacaatttt gaaagaattg caccatcaac 480  
tcataagcaa tcatc 495

<210> 11904

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11904

agcttgtatt gnattttcca ctacatcaat tgtacctatc tagctactta tatectgaat 60  
caaacatgaa ttagaaaaga aagttaactt gatatagaga ttaaattgaa attgaaagat 120  
ggcaagtata acacatctac taagtgtaaa aattcaataa atttgactgt tccagagtgt 180  
atggctatga cttgttgact agcaggcagg cgaactacta tggaatttat ttctctatat 240  
gtagaataac aagtcaatga ggatgcaata tgatctgtag caccagaatc caaaatccat 300  
gttgtagcct caagcttgtg agcattacaa ataagggata gtatatatta cctatgcttg 360  
atgtatgagc agaacttgta ccaatctagt taacttgtga tccacgagag 410

<210> 11905

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11905

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 aatgtttgca tctgatattt gaactgtatg aaaaaaaat aaaaaattac atcatgaccc 120  
 ctgaagggtc cggtgtcacg ataaaacaat actttggacc ggcttcaaga agctctcgca 180  
 cgcctacgtc catgactctc gaagaccag agtaagggac acaaaaaaat caaggaccaa 240  
 ctggaggagt caatcactga aaaagtgact cgacaattaa tgttgtcttt cagccaaatg 300  
 cagtcccaa tgcaatcgca actgcaatca caaagactca cactgcctcc tgagcttgaa 360  
 gttgggtcttt ctgctgctcg t 381

<210> 11906  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11906

gccttgtnat tgagattana tggcggngaa tcatgtgana gggcgcatcg ccattatccg 60  
 actctgggtca cttttagggt gatagacaag aaccgattca agaaatctag acaccatact 120  
 gtgcgcataa tagctgttgc ttttaaagaa ccatgaagat gtagcttgct catacaacgt 180  
 tgaggatacg taggagcaag aacgcctctc catattgcgt ccaggataga ttctagcata 240  
 tccgagcggt caatatgtat agaaatgttc tacggaccta cactataagt tattgagcca 300  
 cccaacgggt aacgaatcgg aacgaagaca atgtcactgg tgtatttgag tcacgaaagc 360  
 tgtggcattg gaatgcgtat tgggcagagg tttctttcat ctgcctatt ctcttggtc 420  
 g 421

<210> 11907  
 <211> 490  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11907

agentgatgg cctggggcta aagatatcan anctagataa tnaagctcga aacagtaata 60  
 acatttgtaa catggctgct tagcatgtat ttatattgcc ttacatgag aacaaagga 120  
 ggggaaatat atgtggaaaa tgaacacgag gaagtagana ataattttct ccttccttga 180

tttgatgccc cacatgaggc gaatataatg ctcagaaaaa ttaaaatcac atactcttcc 240  
 atataagaga tttgtcaaga tattattnta aaaagaacca tatattttta cattgtgaga 300  
 agttccttaa ggtcaagtc cacacagtta acaccgcgac aactgattgt ctcaccaaga 360  
 actctaataa cacactactc tgactcccac agtagcacta tatgtgtgtt caattcactg 420  
 tgtcaccaca ctgaatgtga tttcatttat tgagaagagg attgatgttg aatgtgcctt 480  
 atacagaggg 490

<210> 11908  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11908

agcttggttg tttatggggg acccgtcata tgtggtacta ggtggctatc gggcgatggg 60  
 gcaagtcgac tctccacatc cacaaatcac acataaatcc accatcccaa gttgcccacc 120  
 ttcaactgag ctcacgtagt cccacgtagc ccttatcctg attcctctca acaccgggtc 180  
 cccatcaatc cctccaagct tccataacat ccaagcaatt caacatccaa acatcatgaa 240  
 ttatcagaac caagaaaaca gggcagaggc agaaaactct gcccaaaaca caaaccaata 300  
 ccacagcttt ccttactcaa ataccccaat aacattctct ttgttgcaat tcgttcaccg 360  
 ctggatcgac tcgaanattt tactggaggt cctagtaca taagt 405

<210> 11909  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11909

actcagctct agaggatact aggttggtcac ccagtagggc ctccttaacg tttggagccg 60  
 gtcgtgggat gatgatctgc tgatcacagg cctagtgcct gtcgtaccc gtcctgaga 120  
 attggttaag tgggaaatga cattatgctg tgaacatgg ctacgtacc acttacctcg 180  
 gttcatccct gtcttgatt tggcgccgta ttgaccatcg cttgaaatga tcttgcctt 240  
 gtctttcgat tcataaaata aaaatgcatg tgcattgtga tgtatgagca gtttcaaaag 300

caataattct ttagcaaaag cctgttgggt tcagttntaa ttaagcgctt ggggcatccn 360  
 catggatcga gcanaaaggc tcggatcatt aaaagaatac gcatctttta aggacananag 420  
 cgaggatcag aacaacgaat catc 444

<210> 11910  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11910

agcttgtggt tctggagatt caaccctctg gctcaataat attttaccag gaatgttacg 60  
 acccttgagt aaccttcaca aaggaaaaat ataaaactat aaattcccat aaattgtata 120  
 aggcatgtgc ttccatgaaa tgcattttca aagcaacaat aatccataac actacgaaaa 180  
 gaaggttccc aatttgactg aacggaatac agtcacatca gcattggatt caatcagaca 240  
 cacataaacc atttccaacc atttcttaga atttcaccct tcgaaaattc gtgatcttaa 300  
 tgccaaaaaa attcaaattt ttttaaattg gttttctaaa tccgacggat gaaaacatta 360  
 ngaagtgaag atcagcgaat caggcattga aattcttgag atcacga 407

<210> 11911  
 <211> 329  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11911

tactntggca acagaagggc attaganaag atcatatctt cttatatctt ccattgnnnc 60  
 aatngtataa tttcatctaa acaatattca gaaaaaatga aagaaaatat cctcataaat 120  
 catgtttgct atctccccta ctaaataatt agactccatc tatacctcan accccacgta 180  
 ggatttatgt acaaacagac gaaagagggg gcaaaaaata agtgaaattt aaagaggacc 240  
 ttggacaact ttcaataacc aagtttagtc ccactctgcc tatctacca tgcacgtta 300  
 agctaagcta tgtactcatt caccttttg 329

<210> 11912  
 <211> 405

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11912

agcttnatcc tcacgtccc tcacagtctt tagattgggg agccaatcca atccttgtgt 60  
tcggactctc agccacttat gatagccgcc gatgatccca ttactgcttc ccctaagctc 120  
tctgtccttt cttcacgccg catcccatgc cttgccaact ccttgagta ccctcgcgtt 180  
gtggtcacta aaaccccgtg cgatgaaagg cgtgatgctt tcgtctaata gcgctcctct 240  
catggcgtag ccaagctgtc ttatgggtgag aacaggatta taattaatac aacccttgt 300  
tcccatcaag ggaacatttg gacatccttc gcatgaagat agaatcctga ttcttccttc 360  
cttctagcga gggaaccaat taacagacgc ccccccattgc tagcc 405

<210> 11913  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11913

tagagctgca ttgcgcacc tattttgaat cctctatgat gttcttatgt atataaaaca 60  
gtcccacaat cncgatctta ataaatcaca tccatattgc attgcggcat ttcaccgagc 120  
acttggtggg cgcggtgtta ggcataaatt gcaagagaat gggggcaatg tggcatgccc 180  
cattgtttta gaataccaca taggcgtgag gccatcctct acaacccttc aactctaaca 240  
aattaagcat aaaaaccccc aanactgccc cacaatatg agcacattct cacaatttag 300  
agcacaaaaa gatgaacaaa atgcaccaat ggaaagctaa aaactcaagg attgaatact 360  
tacttggttg agtgagt 377

<210> 11914  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11914

aactaaattg ggcacagcct gggataanan ntatagttag ttggaatata aaccaaattnn 60

ataattggga agtgaatata tatanntata tatatcatac tatactatna ctgagggagg 120  
 gaatcttctc aaagtanaaa ataatacaan cntatttggt annaagtaac taagctattt 180  
 ggttgccag gggtttaact ataatacata ttggcactct aggtaactac ttcaaacaca 240  
 catgtcaacc ttccacgtca gttttgaaat agaagcacag acgcccagtc cttgacagtc 300  
 ggactctcca acanacaagt tatctataac ctcttaatta tttgaatata tattggaacc 360  
 actttatctc ttgacaggtg tcacgacctg cctcgtcggt 400

<210> 11915  
 <211> 490  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11915

nccccgcga tgagaagtca ncgtacnncg cacacttaga aactcaacct tgcanaanaa 60  
 tgaaaatatt aaaatttcaa attcatattc ttatgtttaa atttttaaat catgaaacac 120  
 actcttaatc atacttacaa tcttagcata ttttcacac atattcataa tataataccg 180  
 tgtttttatt atcataatac aatattttac attttccttc atgtgacaat tgcatttcaa 240  
 ggtacgttca tcaccaactt catgtgacat tgaatcattg acataaactt agattagaaa 300  
 atgaatgaac acacttaaag gaaagaaatc attgtcaaaa gttgtgcttt gtaattaagg 360  
 tgtacaatat ataaagttag tgatgaacat accttaaaac atagtgttac atgaaggaaa 420  
 aaacaaaata ttgtataata atgatgaaaa tgcaatatta tatgaataat atatgataaa 480  
 aatattntan 490

<210> 11916  
 <211> 443  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11916

ccccgaaca gaggcgaaac ggacagngaa acgcacgcaa ccgaacccca cacaaaaaca 60  
 ccacnaaggg ggcgccccga ccctgnaccc ccnnaanaaa aancaaggag aaagaagaga 120  
 ggagagaaaa aaaatggtga gagaaggga aaaagaaggg gggggagaaa aaaaggagaa 180



aaagagggga aanaaggaaa aggaggaaga agaaagagaa agaaaaaaaa ggaaagaaag 240  
gaaggaagag gaaagaagaa gaaggagaag gaaggaaaaa ggggaagaga gagaagagaa 300  
agaaaggaaa ggaagagaga aaaaagggaag aaaaaaaga aaaaaaagg agaaaaaaa 360  
ggagaagaag aaaaaaaga aagggaagga ggagaaagaa agagagagaa gaaagagaga 420  
gaaggaaaaa aaaaggaaag acc 443

<210> 11917  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11917

ctgcggatnt ggtcttcgcc gggtaaagga tcaaagtga tcatataaga ggcaaatntg 60  
gtcatcctgc tgtggctgcc attcctatat ggccaagttt cccaccaacc caacaatgtc 120  
attactcagc caataacaac ccattttctt acccaccacc cagttatcca caaaggccat 180  
ccctaaatca aaccacaaaa cccacctacc acacgaccaa tgctaaacac cacctttagc 240  
acaaacaaaa gcactaacca agaatgagt ttgagcaga anaaaaaacc tgtagaattc 300  
acccaattc cgggtgtctta tgctgaattg ctcccatatc cactcgataa tgcaatggta 360  
gccataacc ctgctagggt tctcaacct tcatntttc gaggatacaa ctggaacgca 420  
acat 424

<210> 11918  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11918

ttcnatangt atagggncna ccagagagac gaggggggca tttttgaaag accacagaca 60  
caccactgcg gcgagaacac cgcacgagag aaccgagacc cgaggagag aagcncggcg 120  
ctggagaacc ncggcaagaa cgcagcgag cgaccagcga ccgaccaga gcccgacag 180  
agacaccac gacgccagcg gagcgaagcc aaaacgaccg tgctatctcc ctgttattga 240  
tgcatatgga agcgttecta gtacctctat acgtaggatg ctctgtgtgg tctcctctc 300

ggccgtacat tctgtgtagt ttattgtatt ccgcctctga tagtcttgga ccctgggtgt 360  
gtttccgatac tcttgtttta atacgatacc ccgtaccact atttatcgtg ccaatgtata 420  
accgcttg 428

<210> 11919  
<211> 492  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 11919

cgcccaccgg ccttttaggg atgccagatc gcacnacnnt tngaaacgnc acccgccgca 60  
tgaanaagac cattgtgata aggggaagat tagtgcnttt tgataatcta agcccttgag 120  
tgcgatagga accaatgaat atttgtagcc aagcctcact acaagcccga taaagccctt 180  
ctgattctgt gaatacatTT ctgactgtat ggtctgaaac gaaatccaaa gactgagcct 240  
cttgctagtt gtgattaatt aatcacttat acactagtgc ttgagagaaa caagagccgt 300  
gaaactgtgg ggaagctact ttccttgaga tctggcttat gcctaactcc atctaaatgc 360  
tcacgcgaca atctattcct ctctttggag aaatgcatac cttgtgaaac acaagtgatg 420  
agagcatttt actccattct cttatcattc tatcaagaac tcttggtgca tccaccctat 480  
gtacatatat ct 492

<210> 11920  
<211> 538  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 11920

gacgcaccga ctacgacaag agagataagc ggcacgacag gacacgaaca cacgaaacaa 60  
atactccaac accnacaaca ggagggnnnn nttgacctcg ctcgaccccc nnnnanaana 120  
nanaaagggg agaaananag acggaagag gggagaaaga tggtttaaga aagaagaaga 180  
aggaggaggg agggngaag gaggaagac agacacaaan aagaagggg gagaagagga 240  
aaaagagaaa caagcaagaa gagaaggag gggaagagcg agaaagaaag acacgagcag 300  
acaaaacgag agcaggggacg aaacccaaac caaaggaacg acaccggaaa aaacaccaca 360

caaagaccag caccacaaag agccacacac cgcaaaaaga gaaacgaggc agcaagaaac 420  
 ggagccaaag agcccgaccg aacaacgagg aacagagacc agaacatagc acaaagaaca 480  
 acacaacgaa cgcaacgcc aacgaaagac caaaggcaac acaaaccgca acagaaaa 538

<210> 11921  
 <211> 367  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11921

agcttctctn gccgtaaaaa agatattatc ggccagtgtt tgtaaaaaaa ttgcgcactg 60  
 tccgctgaaa aatatccgtc ggggctatct aactaccgat gtcggctatt gttttttcta 120  
 ttccaccctt gaattatatt tggatgatgc ctattaggaa atgttcgggc ggggtcatcc 180  
 ggccatgctt ctttttgagg cctcaatctg tcgtctttcc tagccaggcg acgctggcta 240  
 gcattttttt cgatcaatat ctgagtgaat catgtttttt ttgcccacg agggctaatt 300  
 gtttcatgtg ccaccaaatt agaacatgcc aatgtcggac gatacacaat accgcacgaa 360  
 aaaccct 367

<210> 11922  
 <211> 471  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11922

catgcgaagt gngtggaatt cctagagcaa ttcctttatg ttatcaaaca tanaaagggg 60  
 aaaggtaata ttgtagccga tgctctttct cggcgatcat cattactttc tatgcttgaa 120  
 acaaaattga ttggtcttga atgtttgaaa agcatgatg aaaatgatga aacttttgga 180  
 gaaattttta aaaattgtga aaaattttca gaaaatgggt tcttttagaca tgaaggcttt 240  
 cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta ctagaaattt gcttgtttgt 300  
 gaagcacatg aaggagggtt aatggngcat tttgnggtcc aaaagactct anaaacatta 360  
 caagaacatt tttattggcc tcatatnann aangatgtgc agaaattntg tgaacattgc 420  
 attgtatgta aaaaggcaaa gtctaaggta aagcctcatg gattgatact c 471

<210> 11923  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11923

agcttttttct tgaagtactg ggagtgggtgc tctgagacga ggtgaagttt ccttggggact 60  
 gcctctctat ttatagttgc tgaagtgggc ttataggcct tcgtagtcgc actcagcgcc 120  
 acacctcgcg cttagcgcg tccagatcgcg cgctgggcac gccatgcacg cttagcctgt 180  
 gcttctgttg gatcgcgcg tggggcgcta gctgggctta gcgcgcgtaa cggtttctac 240  
 tccttcgtgc ttaacgccac gcttagcgcc tgcagctagt tgctcgctta gcgcctgtgc 300  
 gcgcttagcg ccactgttgg gctggggcctg cttcagaatt cctttttttt cttcctttct 360  
 gttgccactn ttgcttaatg tacccttttt tttcgatatct g 401

<210> 11924  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11924

gcactacttc acctnttatt taattttacan aataaataat acacaatgaa nagganaact 60  
 taactactgc tgataaagaa aaaacttcta gaatttagcc ttatcttttt attttaacaa 120  
 tagacaatgc aaaaaaaaa atcaagattt gaattgacta aactctataa actgggctga 180  
 ttaattatga gttaaacagt cttaattatt taataataaa tattaataac atttaaattg 240  
 tacagcataa ttatactat tcacagaggt attggaggga gacagagaga agggaaccaa 300  
 cctggctctt tgggaaagta gggcaacaac accaaagatg aaaaacataa gaagcattcc 360  
 agagtgtcga aagtcattca tgtgagcggn gttaaggact ccaccaacaa aaatcttgag 420  
 gtgtgtgaat acaaaagctc gatgcacatg tcaacgaaag caccaattga ataacatat 479

<210> 11925  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 11925

agcttggttat tcnntatgat agaccagtga gcctcacggtt caaaggggaag ctagtatttg 60  
aggtgaacag gtatggcttc actgatgggtg gagcttgggt tgatgggaac ctaaactaat 120  
gcaatcctac cccgcaaggg cattggatag aaaactccaa gtagattaag ccagagatgc 180  
aagagaaggc cctaggattc ttatgagcct tacggtagat ttcgggccca tgggctaagt 240  
atgagcccac ttatctttgt aaatattaga ttaagggttc attatttttg ggccttgat 300  
atagagctcc ataatgtagg tagggtagcc tagaaaata tgaattttca gcccttgat 360  
tttagggcac ctagactagt ttttgtatta cgggtagttt tgtaat 406

<210> 11926  
<211> 308  
<212> DNA  
<213> Glycine max

<400> 11926  
gcagatgcat gaacatggtc agtttgcagc gctctgtcct cgtgcgtaac atgccagact 60  
atatatgctt gactcaatga ggaatgctac agtgtgtgag ctacgcctgt gagaccatga 120  
cgagaccatt gtagaaaact atagctaagc agagatactt actagaaaca ccacatatag 180  
ccacctgact agaataagaa aacaaaagga ggtgaggtat cctaaacgtc atacggagaa 240  
tacatggagc agacaggcaa ctgtaagacg cactttgtgt aatgaagcag tggacatact 300  
tacaaaat 308

<210> 11927  
<211> 406  
<212> DNA  
<213> Glycine max

<400> 11927  
agcttttatt tcgtcgtggt gctttcatcg ttgtcatctt ctcagacca tcgtgtcact 60  
gtcaatgtcg aagtgtgaac tcctccacca caagactctc atcattagaa gctatgaacc 120  
catctcttgc attttcatgt cttctttgtt gaattttgtt gggatcagag ttggtgtggt 180  
tggtgatgac attggcttta aggtgcggcg gaaggagcgt tagggtttgt ggttaagatt 240  
ttgaaggaaa atggtctcaa aaccatattt tgggtcgaag agtcaattac atgtagagaa 300

agtgttaaca tcctatgatg tttgtcctaa gacaattacc tcacaactaa tgtgcacatt 360  
tagataaatt taaaattatt tattttaccc ctcacaaatg aaaaga 406

<210> 11928  
<211> 508  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11928

agggaagggg gnaggatcgt cngntcgatg cnnctcataa cggcacctta gaaacanaac 60  
cttccttaag aagataccta atgaagctag agcttaacta catctcttct ctctaatagc 120  
taagctcacc tgcttgagat gagaagctag agcttagcta cacaccccat ataatagcta 180  
agcttacccc catgacaaaa tacataaaaa taaaaaaaaa gtcctacta caaagactac 240  
tcaaaatttc ttgaaatata aggctaaaat cctatactac tagaatggcc aaaatacaag 300  
gcctaaacga aggaaaaacc tattctaata ttacaaaga taagcgggct catacttagc 360  
ccatgggctc aaagtctatc ctaaggctca tgagaaccct anggccttcc cttggatctc 420  
tggcccaatc tacttggagt cttctatcca atgcccttgc ggggtaggat tgcattctc 480  
cctccacctt ggaaaggatt tgacctcg 508

<210> 11929  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 11929

agctcgttta tgggtaaaca tgacacaaga caaggcttgg tttggttcaa aggtaaaagg 60  
gatgccccac attattttcca tgacacaaat gcaaaaatga tgatttggaa acttcatgct 120  
aaactgggtca tgcattgcacc tatgtggaca ctcaagtgtc aaattattat ggtcatgtga 180  
tgctaaagct taagattcat ttccactatg ttaaatcaac ccaatgtttc caaaatatgt 240  
tcttttatca atttgtgcat tcattcgagt acatttcggg cgatcagtga atttatacag 300  
cattcacctc tcaagtgtag acacatcttt caaagatagg gtatgatcaa tgaatttctt 360  
tcaaaaaaag ttggaaatta ttct 384

<210> 11930  
 <211> 493  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11930

agggccgctt tacgaagacg tagcagnacg tacnnnctng agtaatnaac nnncgaccnc 60  
 ctgtgttctg ggaacctctc cttectcagg tgttcctctt tttcttcacc tagttcaagc 120  
 acgactgtgt ttctgctttt gttggcttgc cttgcatagc ccgcattatt cttttcaatt 180  
 tgagccttca cttgctcatg cagcttcttc acatactcag ctttagcctg tgcgtcctta 240  
 tgcttaaaca tagcaatggt aagcatangc aacaaatcaa gaggagtcaa aggattaaat 300  
 ttatacatga cgtgccatca ttttcttcta tcttctaaac cttttttgca ccattttaat 360  
 tactgattgg tcttaattgt caattaatta ggcagtttta ttattggggc tcaattagct 420  
 aatctgatgt ttttaatcta atttcacgaa ttaatgaaac attgcgctta atccggattt 480  
 tggttgtgac tcn 493

<210> 11931  
 <211> 594  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11931

ccgcagccgc ggcacacacg cgtaatagtg acagcancag gaggaaagcg ccgctaacac 60  
 gacacacacg cctcccatat catacatncg cacancacac agacacgagc gccgtgtaga 120  
 ccccgtagca ncaccgcnaa nnnaccgacg aaccaccgcg aagcacccga gacgccgcga 180  
 cggacgagcc cctccaagcg gtttgaccac cagcatagc cacaaacgca ggcgccaaga 240  
 ccancanca ccacaacaca acgcaccac acgaccgcaa caccgccgac acacacccaa 300  
 gagaagacac gcacaagagc acacggaacc acaaaccaca agagaccaac aacacgaaac 360  
 agatgccaaa gccaacacag cagcgagac ccacacaaag agagaccagc ccaaagaaca 420  
 acgcatcacc caccgagcc agaccacaac acgcacggca caagcaaccc cccacagaga 480  
 accaacgaga cagcgaagc aaacagcgac accgcacagc acacagaacc acaaaatgaa 540

cgaccaagcg cgagaaaaca ccgaaaacca aacacacacg ccaccgaaaa gacg

594

<210> 11932  
<211> 319  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11932

ttcactttat tgtangtaac gcgagctctg accactgttc ttactggccg cgatgcttct 60  
nttcatgtcc gcctgagtgg gcttattgcc taaaccatac tagccacgat tcccttgtgt 120  
ttttatcaca ctagttatgc cgtcattggg tctgtctaaa cccatctccg gggtcataac 180  
cgttccacac ataactcggg ccatacattac cgccgcatcg gacagacaag gctgcccata 240  
gagggagtcc acggaggaaa tgcttaccac ctcaacaagac tggaaagcgg tttctaacga 300  
ttcttgtgcg gcttccaca 319

<210> 11933  
<211> 539  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11933

acgcccgcac caccaagaca cgacgagagn actacgcaga cggaacaagc ctcaacacaga 60  
accacacacc aacgagcatt gagcctgcaa gcacgcaang acaagnncng ggaccgnnaa 120  
gcgacagcag cagcaaccc ggtgaacacc aaccacgaac ccnaccggcg gagaacaagg 180  
ngaanaccaaa acaccccgag aacgcaacaa aaacaccggc gaagcagcca acaaaaccgc 240  
cgacggagca acccacacaa gcaaccagga cgcacgccgc aggaagcaag atgaaccacc 300  
gcgcgggcgaa ggccaggaac ccgaaaaatg cacccccagc gaagaacaca cgcaagacgc 360  
gcacgacgcc ggaaaccaac agagacaacg agaaacgcga agacgagacc caagcgtcaa 420  
gcaggcgccg cacaaccaac gaagacagag gagagcacac gccgccgatc aatacaacaa 480  
tgaccatggc gcgaccacga acaggcgaaa ccgaacagga gacaacagcc gacacaccc 539

<210> 11934  
<211> 497  
<212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 11934

nnnccggggc cggtacggaa agtancangn agnncnnaca natacgcaag cnncnagctg 60  
ttcattggtg tgtntgatc tcctttnggt gttcnataat gtgggaatgt gctcaaatat 120  
gtggggcaat tttggtttgt tttcttgctt gattgggttg aattgggggt ttgtatgaga 180  
tggccctatg cctataatgc attttgaagt aatggggcat gccacattgt ccccgttttc 240  
ttgctattga tgcctaaacg cgcgccacc aagtgttcgg tgaaatgcct caatggcatt 300  
agcgtgtgat tttcgtaggg aaaccacca tggggcattt tgatttgcac atattttcca 360  
tttttttggg acatgcattc agtttcgaaa gggctagagt aattgcccc catatatcct 420  
aggcctaaga acctaagttt ttatgcataa gaacacaaga agaggtgcat attgtgtaaa 480  
gttaccttct ttggccg 497

<210> 11935

<211> 471

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11935

acgccgcctt tcgtaccctt gnanaccacc cgtttgggaa acgctcgcgg gaccttagaa 60  
cacctgacgc cgcagcttaa tgacttagaa aatacccacc ctcccgtggg gctttcacta 120  
tgagggaatc ctctcatgaa gccaaactaag agcttcactt tgacaggcct tatggaccga 180  
actctcaacc atacctagca tcttgactga ctatgctacc atcgtaccta caagcttgtg 240  
ttttctcatg acatgatcta ggggatgtgc gcagctttat gagatctgaa ggctttgtaa 300  
aatacatcca aaccttcggt caagtttatc aatgctacag aacctcttca attaaactct 360  
aaaccacatg gtatacaatt acaccctagt gcgggtcgac gaggactaac gtatctcaac 420  
atatcatcca aatcacgaaa attcaatgac tgcagcacia tctataaatc g 471

<210> 11936

<211> 1056

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
 <400> 11936

agggcnnnnc aggcggacca cgggtctttg cntttnaatt tactcncccc tgcangtana 60  
 nngccccgann nactatttan nngannanan annannaccc gangncgtga ngcagctacn 120  
 ctcangnagg gtgagnagtg taacacgntg cgnnangaag aaaagagaca ancgaaagtt 180  
 acatgttcgn tctttanntt acanttnanc agnacggcng gncacancn cacnaaggan 240  
 cgctgatnnt gtagtantna gngtattgta cccanganta naactctnca gtacctata 300  
 ntctcacca ctagcgatan ttcanctac ctntgnagtg aggtcggcgn catcgtagac 360  
 cgactatata actactgact aacgangcca cntcgtcgac tgnttcgctt agtacgtcga 420  
 tctatgggcn ctgaagaata ttacgtacac gtcgagcgaa gcatgancag cgcttgatng 480  
 gacacatcgt cgtgcagtgt gncctacaca gtgggatcac acancgggtc cccgagnanc 540  
 tactacntaa tcanctaacg acgccagtca tgntaacagt cncngcaactt angcctncat 600  
 cgaaactagc agcgtancag tcngeactcg atacnatatn gcgcgtagct agcgcaaccgc 660  
 cataggcctn tgacgctata tatntgcagc ctgaaagagc aagcctcggg anantantgca 720  
 gtataatggt gcacanttaa cctcgancgt acccgccaat nagtncantc gtactacgtc 780  
 gtgaactcgt gcagcactaa tcatgtcgan gaagctactc atcgtcgtac taggcaagta 840  
 ggaagtagca acgacncaga antccgnac ngagtantcg ctatctgcgt gtnccgcttn 900  
 tcgtatgtcc caacnagggtg cagacaccat acantgcaac acagtacacg tccgccccag 960  
 tgcgacatgt catnacanca cagtacgtaa ggttacgagt gtctccgcac atctcacgtc 1020  
 gctttngttc ncgatantct cctncgncac gcgcgn 1056

<210> 11937  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11937

agctnatect ttccctcatc agcagggcct tcaaagagaa atattgcatg cccaggcagg 60  
 cgcagcagca ggaggagcag aaatagccag ctgcaagcgt caccacctct acgacatcca 120  
 ctgttaatca tcgtttacga ctaacttttg tatataaaag ttttcaaaa tgtatataaa 180

tttcccaatt tatggttctt tttggttagga ttgtaaataa aattttctttg ttttgatctc 240  
 tgctcagtag aagcctctct agatggaatt aatgttaaatt tttctttaat ttcattgcaaa 300  
 aatgagacta tttgaagaag taccaaatga gtcattcacgc taagcgagct caatgcgctt 360  
 agcgcgcatc aacagctaag cccagcacca acacgcttag cgagt 405

<210> 11938  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11938

ccgccgtctt tgnagaactc nagatcgacg ngcncataga tannaacctc cgagacaggg 60  
 ttatgaacct acacgctagc atcctaattc tttgtaacaa gcttttcgta tatttggtgt 120  
 gtagttagaa aaatctctcc aagcacctta aataccttga gagagaagac taagtactta 180  
 gattgtacaa tcgtttgtaa gacgattaat atttagtcaa tgtgcaaaca aactataaat 240  
 atgttgactt atttatagct agcagtggct tgatagaaca aataatatgt caagcttggt 300  
 gtagagcttg aggtgtaaaa gccaaaagtg ataatgactt atacttataa cttgttgaag 360  
 ttggtggaac ttgggggtta accaatagct agtctcaatg gtagagatga ctagtattct 420  
 aatctgactt ggggcttgaa tttgattttg tctgaacgac tcttttaatt tgcaaaatct 480  
 attt 484

<210> 11939  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11939

agcttggttcn tgattttttc taaggtcttt aacaagctta taactatata cttgtccttc 60  
 atttaactga ctttgggctt ggcgccacg atcaacaaag tactttggac acctactata 120  
 tgttgatttg accaacgtg ttatcggtat gctacgacaa tccttcaata cttattttat 180  
 acattctgag aggttcgtta tcatgtggcc atatcgacgt ctttctctat cataagccat 240  
 gggccatttt tcctttgaaa tgcgatctat ccatgttgct atggctggac tcacttgacg 300

accgcaagcc	aaggaacaaa	ggggaacgag	acaaacacag	acccgaacca	cgccaaaaag	60
gggggcatgt	gaccctggaa	ccccccaana	acaaanagca	ccggggaacc	acgcaacaga	120
acgacgacca	acaatcttga	cgcaacgcc	cacagaccac	caggagaggc	gcaaccgaga	180
atacacacac	caaacacgca	cactcgcaca	gcaagcacac	acccaccagc	atcgcaaacg	240
cacacacggc	acgccancag	gcgaaacagc	aggacagagc	agaacggagt	gcacaccgat	300
ctgcgagcac	tgacacagaa	cgcacaatca	ggcccacgaa	acgcaggcac	cgaagaanac	360
agcatagcgc	gcaacacaga	cgcgcatcgg	acggacgcac	acacgagaca	cacacgcgga	420
tggcgcgaga	cgacgacacg	cagccacgac	aacgcagcga	cgccgctgag	agcgccacac	480
tacaatcgac	cacagcagag	agaagcacgc	gccatcgaaa	tggaggcgagg	acaaaaaccga	540

acaccacaca cagcagagtc cgacagagca aagacattga cggcatacag ggcacacgca 600  
agcgccggac ggaacgagca acgcgcacac cacaacg 637

<210> 11942  
<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11942

aaaaaaaaag aatacaacaa aagaaaagaa aaggaaacgg aacatacaaa cannnaagaa 60  
ggaganggcg cccctagacc ccnnnanaaa annnggagag aaaaaaagaa aaagagaaga 120  
atttttttaga aaaagaaaaa aaggggggga aggaaaaaaa aaaaaaagaa aagaagaaag 180  
aaaaagaaag gaagaagaga gaagaaaaag aaaaaagaag gaaggaaaaa aaagaaaaag 240  
gaaaaaaaga aagaaaggaa ggaaaaaaa aaaaggagaa agaaaggaa aagaaaaaaa 300  
agaaaggaaa gaaagacagg aagagaaaga aaaaaagaaa aaagaaaaaa aaggaagaaa 360  
aaagaaagag gaagaaaaga gagaaaaaaa aaaaaagaga aagaac 406

<210> 11943  
<211> 395  
<212> DNA  
<213> Glycine max

<400> 11943

agctagtttt atctttatgc gagacagaga ccaacatgtg agctatcatc gtcaagtacc 60  
aagaatagct aagtgtagcc actgcccacg agcataaaat cacggatgag tatgctcaag 120  
tgtatgcgga aaaagaggct aaaggaagg tgatcgactc ttacaccat gaggcaacca 180  
tgtggatgga tcggcttgct cttaccttga acgggagtc aagaacttccc cgattgttag 240  
ccaaggccaa ggcgatggca gacacctact ccgccccga agagattcat gggctgctca 300  
gctatttgca gcatatgata gacttaatgg cccacataat tagaaatcgt tacgaaaatt 360  
gtatggtctc tcagaccttg actggatagc acttc 395

<210> 11944  
<211> 355  
<212> DNA  
<213> Glycine max

<400> 11944

agaattaagt gcattctata tttccaagag cattcactat tttactgaat acttagtact 60  
ttataaagca ttacgattag taagataggg aagagaatag tattactttt ccaagaattg 120  
caaactttcc agtaagttat ttaaagacca gtcaaacc aa tcttaacgaa ggaagattcc 180  
tagaggatag tattcacagc gaattattgc agggaatgtt atccataacc gttacacgtt 240  
gaagcagaca cccatatgat ataaaggggtg aatgcgctac aatatcatca caactctcga 300  
gccatttagt tatacagtca ctcaaccatt aagtactatt gatgagtact acaca 355

<210> 11945

<211> 559

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11945

gccacccac acccacaccg gagaggaaag aagtgagacc acacacagac gaagcacaca 60  
caacaacaca aacacacacg cgagagaacc gnnngtgga tcccgtagcc caccncaana 120  
nanagaaaga agccgcgaga gnagaaagnc cgcgacgaca aacaagcaaa ctgtggtgga 180  
agaaagacag acaccacaac acacaggagg cgagacgcac gacacaacga cccgacacnc 240  
cacaaacacg cagcagacga acaaccactc aaagccacaa cgaccgagca gcaanacgac 300  
gaaggaacaa cgagcagacg caggaaaaca cgacagcaaa gacacaaaca cccaaggaga 360  
agggaccaac acaccaccaa cacacacgac aacaacaacc gacaagggcg aaaaacagac 420  
accaacaaac cgagccgaaa acaacacgag aagcgacaca caaaaaccaa caaagaacag 480  
gaccaaccgc acaaggcacc acaacaacc accaccacca aacaaacca cgacacaagga 540  
aaccaaacag ggagaagcc 559

<210> 11946

<211> 502

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11946

ccacctcccg cggggggttga ttgactgagt cgatcgnach nnacngana atatagccaa 60

ctcacgctnt gggcataatg agaatgcaaa tatttagagt ttatttgtgt tcaatgctaa 120  
gcttttagggc ccattatata cttgtcaacg aaaaatgatt tcgcttaagg gagagcaacc 180  
aggtggaata gactcacttg ggaggaaatt gttgaagtat aattgtgaat ttttttatga 240  
agctcgaata tatttagtaa atatattcaa atattggcac aagctatgat gacgaagtaa 300  
atatccttgt gtatgatgta caaaaaataa aggtctttgt tctagatcat ggtagtatga 360  
tgcatectcc acactttacc accaactctc ttctttacgt ttcttttttt cctctcagtc 420  
gcataccacc atgattctcg tgatgacctt cttctcttcc gctactaaca attcccaacc 480  
acaatagtgc aaccacccat cg 502

<210> 11947  
<211> 393  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11947

gggctagcgt ttatgcgaga cagagaccac atggtagcta tcategccaa gtaccaagaa 60  
gagttaggcc taccgccggc ccacgagcat agaatcacgg atgagtatgc tcaaagtgt 120  
tgcgggaaaa agaaggttga aggaaggggtg atcgactttt tacacccaag aggaacccat 180  
gggatggatc gggtttgctt taccttggac gggaagtcag aactttcccc gattgttacc 240  
caaggccaag ggatggcaga cacctacttc ccccccgag agattcatgg cttctcggct 300  
attgcagcat atgatagact taatgccac atattagaaa tcgtaggaaa ttgatggctc 360  
ttagacctga ctgactnact tcttttttaa tan 393

<210> 11948  
<211> 500  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 11948

tctcaagcaa gcttccatca atccttttat gttgctaaga atcataatga ttccatctta 60  
ngaacatgtc ttaggaattt ctgcactttt cttggattat tcttaccxaa tggttttag 120  
gaaatatagg atttcccat atgaagcttt gcagaatgac ccttcagaaa ggagtaagaa 180

atgtatacac taacaatctc ttagcatctc acagtaggga tagaatatta ttcctataaa 240  
 catacttatg ttcttcagat ttgcttaaaa gctataaatg caaacttaaa tgctttgaat 300  
 ttcaaacttc catgtttctt gaacactctt agtgagtagt tntactttta tgagtgtttc 360  
 cacaaactaa ttactccctc tgagctttct gagaaagtgc cactntctct cttttagttt 420  
 tttgaacatc aaannagtgg ttcctatggc ttggtttgaa taaaatgggt tctgaacatc 480  
 tgagtanatg atcatatatg 500

<210> 11949  
 <211> 389  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11949

agcttatttt tctaagcact aacaaaaaac ctttattcaa acctttcaaa gtgagtgaga 60  
 aggctaaacg aaaaattagg gaacttaaga aaactaaatc cttaattgaa ggcgtaagtg 120  
 acaatcatag cgaattacta aacaagattg gtagtttgct taaagtcatt ccaaatactc 180  
 cccaagcctc ggaaaatact tccaaaatgg taacaagaag tacctccaaa ttaattaatg 240  
 ttattaatga agatagtgc caaaactcag ataacacaac tgagatagga tcagtgtcag 300  
 aaaagaacat aaatccgata aattccaaac actgganaac accctccana ttatattatc 360  
 aacgtccaac tgcccctgac cttctatta 389

<210> 11950  
 <211> 452  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11950

gacctatttg aagactggcc taactaaaca ttattattga acagcataat taaaaccaag 60  
 acttaatccg cagatccctc ttgtaagatt aagtcttgat cctgcttcaa tcaagttcta 120  
 aggcaacagt acatttccca atgctaaagt cacctaacta tgacacacaaa tggatgatca 180  
 aaccaaagc atacaaacat taagcattga aggaagcatt gaacacagaa aacataatca 240  
 attaaatatt aggtatttac atcagttggt cattagaaat ccctaactag ggtgcttatg 300



cagccattac aaaaaaaccc acataataat aatggtacaa aacctanngt tcaatgcaca 360  
 agctgctctc ttgatgcttc tanggctttn tttcccaa atgcactgtg gtgttctctg 420  
 gaatctgtgc cctttcttct gctacaatc ta 452

<210> 11951  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11951

agctntgtgt atattaaacg acaataactt tttactcgga tgtctgattg agtcccga 60  
 tatatcgaga cgctcgaaat tgaataccga agcgctaagc aaattcaaac gacaaaaact 120  
 ttttactcgg atgtctgatt gagtcccgta atatatcgaa aagctcgaat gtgaatgtag 180  
 aagctctgag caaattcaaa caacaataac tttttactcg gatgtctgat tgagtcccg 240  
 aatatatcga gatgctcgaa atggaatacc gaagctcgga gcaaattcaa acaataataa 300  
 ctntntactc ggatgtccga ttgagtcccg taatatatcg gaacgcttga aattgaatgt 360  
 agaagctctg agcanattca aacgacaant aacttttact cg 402

<210> 11952  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 11952

tctacattca atttcgagct tttcatatat tacgggactc attagacatc cgagtataaaa 60  
 gttattgtcg ttggaatttg ctgagagctt ctacattcaa tttcaagcgt tccgatatat 120  
 tacgggactc aatcggacat ccgagtataa agttattatt gtttgaattt gctccgagct 180  
 tcggtattcc atttcgagca tctcgatata ttacgggact caatcagaca tccgagtataa 240  
 aagttattgt tgtttgaatt tgctcagagc ttctacattc acattcgagc ttttcgatat 300  
 attacgggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat ttgctta 357

<210> 11953  
 <211> 404  
 <212> DNA

<213> Glycine max

<400> 11953

agcttatgtg ctatttcctt acgaacgttc acttgacaaa gacatcctat caactaagaa 60  
aaatgcaccc atatacaatc aaggtagctt cattacctag attatttaca tgtacttcca 120  
aggtgtatatt gttatttaca tcacacacgc ctcttggct gaatttacat acatgcatac 180  
tcaaagcatt ttgggggtacc aaaaactgca catgcgctca tcttgggtatt tctaataccc 240  
ctacatatac aaacttcacg atgaatcttg actacctaca caataagggtg ctacatttca 300  
tgctcttttt tttcaagttt ttgctaccta aagccacatg caaattcaag catattttcc 360  
tttgctgact aaaattgtat tcaaattaga aggcatatat tttt 404

<210> 11954

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11954

cataggctac atgccagcta actttgcgga tctcgtcttc gctgataaag gattgaatcc 60  
ggactacgaa gaggcaagtt caaatatgct gccaatatgg cccccaacaa caacagaaga 120  
gccccagtag tgggcgcgag gaaaaaggaa ggagacgccc acgcgggtcac caccgccccg 180  
acgtggatga aagcacccca aaatatccaa agctcatacc aaccaatcc cccaaatttt 240  
ttaatccgag ctgggaattc cctcccgact caagtaatag gaccactcgc agcagaaaaga 300  
gcgcgggcac aacgcacagc tccagccgca ccccgccag ttaataatac agcccgcggc 360  
gcgacttata gatatgcaca acacccgccc ncgaaagaca acttctctct attccatgga 420  
tactccaagt atggcctcat tattggaga 449

<210> 11955

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11955

agctnttttc tcacgtatgc aactattgtc aatctcatat cattcaattg gaaaagattt 60

gacaaagtgg attggaggta aaagttgaca ggttgatgtc tacggaaaca agagaaaagt 120  
 aaaagagcaa aacacaggcg tatttttgata agtttgagtt attagtaagg ccacaaaaga 180  
 gatacgtcag gataattttt aaaggaattt ccaagccaag aggacaatgc cttgatgcac 240  
 caaagaagta atgcataaaa gaagaccaa gagggattaa atgaatgacc aaagcctcaa 300  
 ggataaatag atagagcata atatcatcat tcaaatatt acacggtaat attaagggtt 360  
 tcaaaggac catcaaattc acatgataat ctaacacaat aaagaaa 407

<210> 11956  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11956

acactatata agacacaagc tccaccactt ccgactaaac ttccagctgg agtcatata 60  
 ccncttggtg cttggcctgg tacgtatnaa ttttcagaat attgctgtct ggttttttgt 120  
 ttgcatatcc tgtttttaac tggcatgttc ttttctctg taactgcaaa aaaatattta 180  
 cttgctgagt ggcttctaac ttaataatc ttaacaatt ttaattaag gaatgatgcc 240  
 cattgctgat tgcataaaca aatgaattgg aatccttcca atcctttgaa taacttctca 300  
 tgctatcatg catgaggaat atagtgaat tttattcata tgccgacata tataaattct 360  
 tgaccaatc aagtatgtta ttaacttatt atctattagt atgaacgtct ggtttgaatg 420  
 ttacatttca tgt 433

<210> 11957  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11957

agctngtang atgaagtgtt gaagggtgaa acttgctact tttattgttg accacagagt 60  
 ggtacctgga gatatgtcgc gggggtcagg agacctttgg gacgtcagg ggggtgctat 120  
 tgcccaaac caagcttgac caatcccgac ccacccggg catagtcggc cagtgagaac 180  
 ctgtgatgta cctaaacagg caagctcctg gcagtcaaca gataaaagga acaaagacca 240

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<210>	11960
<211>	410
<212>	DNA
<213>	Glycine max

<223> unsure at all n locations  
<400> 11960

cataactgaat tgagtatggc gcacacattg catgtttgat attcctttta gaggcttgaa 60  
nagtgcctaga gaacgagctg tattttctgc gttntctgga aaacgcgatg aactcgctaa 120  
gcgagcatgc tgcactaagc gagttcatca atactcattg tatgtaagtg ttatctaaag 180  
aactcgctaa gcatgcttac cgcgctaaga gagttcatcc tttgaggatg aacactcatc 240  
ctcttgctga actacttttg gctaagcgag gctgaatcgc taagcccagg taacttaacc 300  
catttttttg gtgatagtta tgcactaagc cgagcattcc tgagccaagc acaatngggt 360  
gcagcgctcg ctgagctaag cgagcttcac tcgctaagct cccaacactt 410

<210> 11961  
<211> 400  
<212> DNA  
<213> Glycine max

<400> 11961  
agctttttct aatacataat atcgtaacta caaaagtcaa aatatataag tctctacata 60  
ttacagttgt cttatacaca ttttcatact ttaaaaatat tctataattt tttgttgta 120  
atattataaa aaattaaaag cataaaatag taaaattaat ttcaatttat tcttttttat 180  
ttcttataat tctttcattc atttataaaa aaatatatga aaataatacc tattttttga 240  
aggaggcaat ttatttttat tacacatata caaataatat ataaaaaaat cataggaaca 300  
attgctccca gggtactatt gtctatccgc cacgtgatgt aacattaatt aaatttgta 360  
tatcatatca ttataaatg tgcattaata ctttacgaag 400

<210> 11962  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11962

taataccttg nttagattct aggagagcat atggttcaag gaaaatttac tctaaatttg 60  
gggggaggaa agtcaattag aatgaaaaga aaaagggttaa gcatcagcac acacaacaaa 120  
taagttgtat gtcaaaaaaa aaaagataaa aaaaataact tgtgctgtta caaaaaggtc 180

gaaagcaact taagataagg gaatagtgag aaggctatct gtacaaaaca agaaaagatc 240  
 attgngatta gtctaggact tgtgctctct tagaatctaa acttttgaat cctaganaaa 300  
 ccagtgattn ttatgtagcc acaacctcac tacaagcttg agaaaagtct tctgattttg 360  
 tttatatatc tctgacttga tgacttgaga tgaaatgcan agattggacc tcctgttagt 420  
 tggatatcaa 429

<210> 11963  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11963

agctnnatgc atgaccacca atggtctata tatatgtgac ttaaacaaga aattactcag 60  
 agattttcag aacaacaaag tgtttatcct ctcaaagagc aaattcattt tctcctctta 120  
 agaattcctt ggccaattca attgcaattc attaaggaat tatttgagtg ctcaatctgt 180  
 aaaatccatc tctttctaga gagatttggt cttctctctc ttctcatttt ctaagggatt 240  
 aagagactgt gagtctcttg ttgtaaagga tctctaaaca caaaggaagg attgtccttg 300  
 tgtgtttaga acttgtaaaa ggaatttaca agatagtga actctcaagc gggttgcttg 360  
 gtgactgaac gtaagca 377

<210> 11964  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 11964

ctttaagatg agtaaataaa aatctatagg agaacatttt tacatcttta acacattaat 60  
 tcctgagggt cttaacattg atgatactat aagcgatgag gatcaagctt ttttattatt 120  
 gtgttattta tctaaaatgc atgcatgttt cacagaaacc tcaactgttg gaagagactt 180  
 tttgtctctt gatgaagtat agactacttt gaattcaaaa gaattgaata caagaaaaga 240  
 aataaagtcc tctggtactg gtgaaggact aacagcatga ggcagatcat caaagcaaga 300  
 caacgacatc acaagatagg atctaagcca caatagaaga gtagcggagg aaatgttcct 360

aacatcacgt gttatcac

378

<210> 11965  
<211> 400  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 11965

agcttcctta tcacaagcaa atcctaaatc ttacatttta atatataatt gcttaccatg 60  
tcatttattt ttttatttat ttttgggtaa agaaatggga gcaaatatcc aaggattgta 120  
gggaaaatgc aatagatacc tgaattgggc aaattgaagg tagtgatatg gagtttcgag 180  
cttccacctc gggataaact ggggaagctgc acacatactt cattaactga taagtgacaa 240  
acttattgtg aggtacatgg gcagaaaaca gatatcttta ccaagttgtg aacatacatc 300  
agttttttgg tacaatggca acaatgaggt ttaaacctaa gactntatgc aaatactgaa 360  
attccccacc actatgtcga ctccagtggg ttcatgaatg 400

<210> 11966  
<211> 483  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 11966

ggcctctttt tttgatttnt gacatgnacg gntcnnnnn ttngnnaac aacggcaagg 60  
nanngcaaga cgggcaacga ancaacagac attaatttgg tttatatgac gatggcgaca 120  
agcagagcgt ggtataagac ttaatcttac acacccgacg cggcaaaaaa cgccagcta 180  
atcttcacta caggggatc tacgagcaca tcacaccgt acttaggaat gcgaggtgaa 240  
attagaaccg tgctgactta cgaattgcaa gacataccat actgcgaagg ctgatataca 300  
tcaatggaaa ctaacaagta cgaagcgatt atattggacc cgcacagtag atgcagtaga 360  
aactttaact aaaacaccaa aacaagcttt taaactggta gcacacctag gaccggatta 420  
ggatcagact acagcgacag taataggaca acgtagagcg tagcagacca agaaatgaac 480  
cag 483

<210> 11967

<211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11967

agcttggtgt attatggggc acccgtcata tgtggtacta ggtggcgatc gggcgatggc 60  
 acaaatcaac tctccactt ccacaagtca aacataaaca caccatcccc atttgctcac 120  
 ctttcaactg agctcacgca ctctacgta gcccttatcc ttgttctct cagcacggg 180  
 tccctatcaa cccctccaag ctccacaat atccaagcaa ttcaatttca tttatcatga 240  
 agctacccta aaccaagaaa acagagtaga ggcagaaaac tctgccc aaa acacattcaa 300  
 ataccacagc tttccttact catatacccc agtaacattc tcttcgttcc aattcattaa 360  
 ccgttggtatc accttgaaaa ntttactgga ggttcctagt ac 402

<210> 11968  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<400> 11968

acatagttaa aggaagctga cttggatggc tgaaattgga tgcatagaag gaagcaagga 60  
 gagcatgtag agagtgagag cacagtgcag agaaatagca ccaacataat gccaaaatgc 120  
 agttttaaag cacaaatgaa aatgtaactg ccaaaggcag ttatgcctta tttttggcag 180  
 tttcgaatgg ctgccttaac gtgccaaactc gctaagcaag catacatgat gtttaagttt 240  
 ccaaacactc gtgcttagcg ggcaaactcg cttagcccat tgcacatatt caaaatttcc 300  
 agagaag 307

<210> 11969  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11969

agcttggtgn ttcacctatg gagattttga attaaggggg tgtgttagtt ataattcaca 60  
 atactagttg taaagtttgg tagtttggtt agttagttaga gtgtgataag acagtgattg 120



aggctgaact tgagttgtat aaatagcctc tgtgtaattt atttcataat gcaattcatc 180  
 tcatttttagt atatgctttt tcctggcttt ctctctttct ccacaacata gattaggtac 240  
 ttattacaat cattagatct taaaaaaata tatgatataa atgatgagta actttaaaat 300  
 cctccatcta ttactctgtg ttggctacaa cgatcagaga atg 343

<210> 11970  
 <211> 307  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11970

ccaagcattg cagtggatta caagaggaaa cataccttct ccatagaagg tcanacaact 60  
 ttataacctt gttataatca atttaagaac tatgtgtgtg aggccaaacc ttcggaatca 120  
 ctaagacact ctgttatcta gaagagacta agacttatct gtcttcttga actttgattt 180  
 cttgagctag attcggactg taagaaactg ttgagttgct atcgtcttgg cgtcatctca 240  
 tccttcatac acctacattc acattctatg ccttattact gatgacaacc aactaagatg 300  
 atttact 307

<210> 11971  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
 <400> 11971

agcttgtttt gtttaagtgt tgaagggtga aacttctctg ttttattgtt gaccacagag 60  
 tggtagcttg agatatgtcg cggggggtcag gagaccttgg ggacgtcagg tgggggtgcta 120  
 ttgccccaaa ccaagcttga ccaatcccga cccaaccggt gcatagtcgg tcagtgagaa 180  
 cctgtgatgt acctaaagcag gcgagctcct ggcagtcaac agataaaagg aaaacaagac 240  
 cacaaagcaa ggaggcttgt ggtaggcttg ccagctgtga atttgtgtaa tatgtggatt 300  
 gtggcctctg gtaatcgatt accaaggggtg ggtaatcgat tacaaggctt aaaaatgaag 360  
 acaggaggct aagatgggtct ctggtaat 388

<210> 11972  
 <211> 418

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11972

actcagctcg agagatgctt aatggaggat aagaagaggg agagaagtga gaggnngggag 60  
cacganattg aaggaatgga agatgtatag aagtggaaact ttgaagtatg tctcacaaga 120  
ctctcattca tcaaagttac aacaagtgtt acacatgctt ctattttatag actaggtagc 180  
ttccttgaga agctttcttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240  
gagaagctag agcttagcta cacacacccc ttcataact aagctcacct ccttgagaag 300  
cttccttaag aagattccta aagaagctag agcttagcta cacatacctc tctaatagct 360  
aagctcacct ccttgagatg agaagctaga gcttagctac acaccncct ataatagc 418

<210> 11973  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11973

agctngcnat tcatggnaac tcctaataac tccacactc tttggagtgg gccattcttg 60  
gatggccttg attgtctgag ggtccacttg gacccattt ctaccaacta caaacctaa 120  
gaaaactata ttatctacac aaaaggtaca cttctctata tttgcataga gggcgTTTT 180  
cctaaggact gaaagaactt gtctgagatg tctaagtga tcatctacgc tcctactata 240  
cactaaaata tcatctaaat aaacaactac aaatctacct atgaaatccc ttaagacatg 300  
atgcataagc ctcataaagg tgcttggcgc attagtgagc ccaanaggca tcactagcca 360  
ttcatacata ccacacttg tcttgaaagc acttttgcac tc 402

<210> 11974  
<211> 375  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 11974

cacatagaaa ctaagctagg cgctacttcn tacgagcgtt cacttcacaa gacatnctga 60

ttctaagaaa acgcgcccac atacggtaag gtaccttcgt tacctacatc atttatatgt 120  
 acttccaagg tgtatctggt acctacatca cacacatttc ctttgctaaa ttacataca 180  
 tgcatactca aagcactttg gctatcaaaa attgcatacg tgcacattct ggcatttcta 240  
 atacctatac atacacaaac ttcgatgatga atcttgacta tctacacaat aaagtgtac 300  
 atttgatgct tctttcaagt gtttttacta cctaaagccg catgcaaatt caagtatata 360  
 ttcttttgct gacta 375

<210> 11975  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11975

agcttcnctc catttatcta taaatagggg gagaagagaa atgaataagg gttcagcccc 60  
 ttacgcactt ctctctcttt cgaatttgct tggaaaaatt gtctccgtga agaaaatcta 120  
 agccgagggc cttccgacgc gcttccgaaa cgtttccgta agcaatttcg cgaagggtgc 180  
 gaccgttctt cgacgttctt cattcggttct tcatcgatct tcgatcttca acgagtaagt 240  
 acctcgaacc aaacttttcg attcattcta tgtaccgag gtgggccaca ttatgtatca 300  
 tgaattttta ttgtcgtaac attcactata tatacacgct cttgacgcgc tt 352

<210> 11976  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11976

agaatcaccg ggacgagttt tctctgtagc tgnacaacng gttcagccgt atcttataaa 60  
 tctatacgac gcatacatgc ggaggggcta ataccaagaa tgtgtaccaaa ggcccatcct 120  
 atatccttct tatagcttct tgagaactaa taacagctta tactcttgct catcggcaag 180  
 ggaggaagat acaatcgctg gaaaactctg gctatcatca gagtaagcat actgtaaaata 240  
 agatggcaga ggctttaatt ctggtgtggg cagctggata atgcgagaaa gagacggttt 300  
 ctcatcctgt acctcataaa gaaagtca 328

<210> 11977  
 <211> 494  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11977

aaaccatcgt gggtaggtg ccttgatana ccgcngaata tagctcggac gccgggatgc 60  
 tcctntatcg acctgctggc atgccaccct gattgtaatc tactcaaatg tgcacggacc 120  
 actaagcatt ggatgtgttg gagcagatct gccgctgagc tgcctctctt gtgggcttaa 180  
 cgtgaagaag agtgggggtat atgatgaact atgaagattg acgtaggcga cgcgttcata 240  
 tgttcactaa gcgagtttagc acccgctaag ccgacatata ctagtgtgca caacacacga 300  
 acgggggtgag ctaggcttac aagcgtttcc gaagctccct gatgatgcac tgatacagca 360  
 tgtaaataca gtattctata ctccacaaca cataagagac tatcgagaga aagtgtgacg 420  
 acccagctcg tcgctaccat atcaattacc tataaatatg acatttcaat ttagaaagta 480  
 cagcctcatt aatg 494

<210> 11978  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11978

tgaagtgatg aagtgcggaa gggtagagact tcctactttt atttgntgac cacagagagg 60  
 tacctggaga tatgtcgtgg tggtcaggag accttgcgga cgtcagggtg cgtgctattg 120  
 ccagaacca agcttgacca atctcgacct atcccgggca tagtcagtca gtgagaacct 180  
 gtgacgtacc taaacaggcg agctcttgac agtcaaccga taaaagaaca tagaccacaa 240  
 agcacggagg cttgtgtggt ggctggccag ctatggatct tgagtaatat ttggagtatg 300  
 gcctctggta atcgattatc aagggtgggt aatcgattac aaagcttaca catgaatgca 360  
 ggaagttaag atggcctctg gtaatcg 387

<210> 11979  
 <211> 405  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11979

agcttggttt tataacttcct gataataggc tgccacacaa cccagctttt agaactcacc 60  
 cctactggaa ttccaagata agagaaagga atttccagtt ggctacaatt aagaaattga 120  
 gctgcatccc tacaccaacc ctctgatttg cccacataac cgaaatggct ttccaaatat 180  
 tcagatagta ttcttctatg tttcttggca tagctttcca atttgggaca tgataggtgt 240  
 atagaatggt gcttcatttc atgtaattgt agacctaata gggcagttgt gttgtctctg 300  
 ttatgctttt cctttgccaa tatgtctata tagttntgtg ggtacattaa gtcttcaata 360  
 gtttcgactt gctagtcatt agttattgtc tttgtgatgt tctga 405

<210> 11980

<211> 279

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11980

gatcactaag cgacagctta tcagtggcta agcgagtcnt attgtcgcta agcgcgaaac 60  
 cttacggcca tatctgaggt cgataaagct aagtgccagt catggtagct aagcgagatt 120  
 cattgcggca atatgagcgc taagcgagaa cctctcagct aagcgcatgc tcctctgtac 180  
 tttagatgca tcattcttagc taagctggcc atagccacgc ttagcgagag ctgcgcgctt 240  
 ctaatcagca gacctcgcta agtggacgta ctctcacgc 279

<210> 11981

<211> 401

<212> DNA

<213> Glycine max

<400> 11981

agcttttgat tttccaagtg ccaattcgtc ttcttcttta gtccagtctt cttctggctt 60  
 caattcatca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120  
 gacagctttc caggttctgc tatccagtga tttgagaaag gccaccatcc ttgctttcca 180  
 gtattcatag ttgatgacag cacctttgtc aatgattttc ttcatgcctc ttaagtgcag 240

atgtccaaat ctttgatgcc atattctgac ttcattcttct ttggaggata gacatgtgga 300  
 ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcctttgatc tgctgccctt 360  
 cattagaact tcactcttct catttgtcac caagcattct g 401

<210> 11982  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11982

gatagattga acgaatctag taactaatgc cagctttaat cgtatgtatg gatagactaa 60  
 agcagagagt gatcaatata aagaggctca caggtcgtgg tcatgttgtc aagtatcaaa 120  
 tgatgtgaaa gaaatgctat tcaatggaca acaatatata taggagatat gataaacata 180  
 tgaaagggaa aaggaaaagg aaaagtaaga aagcaataga catgttaagt tatgtaatga 240  
 ggtaagtagg aaaaggaata atgaaatgga attaacacaa acattataga aaaatgacta 300  
 tattatttta taagttaaca attatttaaa aaatagaata taagtgtatc tctattctga 360  
 atatatacaa aagaattaca cagtcagata acagaaatga gtatataata atgttctctt 420  
 cgttcttcta cactatatct atgtcttnca atggattatt cacaattgca catatataat 480  
 actcatctta 490

<210> 11983  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 11983

agcttgctca tagaggtcca ggaaggacaa ggcggccgaa ggaactagtt ccgccccgga 60  
 gtacgacagt caccgcttta ggagcgttgt acatcagcag cgcttcgaag ccatcaaggg 120  
 atggtcgttt ctccgggagc gacgcgtcca gctcaggac gacgagtata ctgatttcca 180  
 ggaggaaata gggcgccggc ggtgggcacc actggttact cccatggcca agtttgatcc 240  
 agaaatagtc cttgagtttt acgccaatgc ttggccaaca gaggaaggcg tgcgtgacat 300  
 gaggtcctgg gttaggggtc agtggatccc gttcgatgcc gacgctatca accagctcct 360  
 gggatatccg atg 373

<210> 11984  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11984

cggagaggat gcttcaatgg aggataagaa agagggagag aagtgagagg ngggagcacg 60  
 acattgaagg aagaggaatg gagagaagtt gaactttgag ttatgtctca caagactctc 120  
 attcatcana gttacaacaa atgttacaca tgcttctatt tatagactag gtagcttcct 180  
 tgagaagctt tcttgagaaa acttccttga gaagcttctt tgagaaaact tccttgagaa 240  
 gctagacctt agctacacat acccctctca taactaagct cacctccttg agaagattcc 300  
 ttaagaagat tcctaaagaa gctagagctt agctacacat acctctctaa tagctaagct 360  
 cacctncttg agatgagaag ctagagctta gctacacacc cnnctatata gctaagctca 420  
 cncccatgac aaaatacatg 440

<210> 11985  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11985

tttcaccttc tegctaagct aatctggttg cttagagagc ttccgctaag cgcaccactc 60  
 atgggctaag tgtgaggaag actctggaag aagatgagct atatagggtc actaagcgca 120  
 ccgcttcac tcattcacta agcgagaaag gcacgcgcta agccgaaatt cactaatgtg 180  
 cgctaagcgg tccataattg cactaagcgc acgaactcga acaaggccac ctattgatgc 240  
 ctgaaatcag attgtagaga cggagtctcg actgggattc agatctttgc atgtctagag 300  
 tttctagaga gagaaaggtc caagttccaa agagtcttga gagattntgc tgtgtgaaga 360  
 tctgcagaga ccagagcttg 380

<210> 11986  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11986

tctcgacata tgatgcgccc gaatcggaca tncctgtga aattatgacc atttaaattt 60  
 cgcgagagtt tggcgatggt taatttcgag cgtatcgata tattataagc ctgagtcgta 120  
 catccgtgtg aaatgttatg accatttgaa tttctcaaga gcttctgttg ttcaatttcg 180  
 agcctctcga catattatgc gcccgaaatcg gacatccgtg tgaaaagtta tggccatttg 240  
 aatctctcga gagtttccga tgtttaattt cgagcgtatc gatatattat aagcctgaat 300  
 cggacatccg tgtgaaaagc tatgaccatt tgaatttct 339

<210> 11987  
 <211> 598  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11987

ccgcacggca caccgagcga aggagcgtat accgtgataa gatgagaaca agcgaatata 60  
 caagcaaaca canatatatn tatnntaccn caaaaagaga gagcaggggn tccggacccc 120  
 cctcgnacac ccacgngaa nanaagannn gnangaggga gananaaaga gaagaaggaa 180  
 gangaaagag ttgtttttta tggatgaagg annaaggann gaaggagaga gaggagaaga 240  
 agagaaaaaa gggaaggana agagaggagn gaagagaaaa atagaaaagg ggggagagaa 300  
 gggaaggaaa tggagaatgg aaaaggttaa aaagagaaaa agagaggaag agggggagag 360  
 aaaaatagaa agagagaaag aaagaaggag agggaaaagg gaaggagaga ggtgaaaaag 420  
 tgaggaaaag aagtggatgat gaagagaagg ggaggaagaa agagaaatgg agggaaaaga 480  
 gggatttgag agaagagaga aaggaatgat ggaaaggag agatagagag gaggaaaaga 540  
 aaaagaagat agggagaag aagggaagg aagaagagga aaagaaaaga gatgagag 598

<210> 11988  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11988



tggatttgag gtttaagaac cattattcac tttcgatcta acgaanacac tgtttatcgg 60  
 tgtatgtatc tgaaggtcag tgcgagtaag attattttct aattctgtat attgatgata 120  
 tcttgcttgc agctaatagat cttgggtcttc ttcattgagac taagacattg ctctctataa 180  
 actgtgaagc gaatgatatg ggtgaggtaa cctatgtgat acggatagaa atattccata 240  
 gtagatcaca tggatttcgta cgcttatctc agaaagtata tatatcgatc aagtgcctaga 300  
 gagatttaag atgaataggt gtttaacatc gcctattcta atttagaaat gagacagagt 360  
 tagtcttgca caattgccta gaaatgatat ggaatg 396

<210> 11989  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11989

agcttggttat aaaataaata ttgaatggtg gattaagttc tgcactattg aactacttag 60  
 acaatattaa aataactcaa gctataaaat atgacaacta tcaagataat cgcgttgagg 120  
 agttcttact aaaatatctc ttgccgtata aaagggtttt ctctatttaa cgctacccta 180  
 gtgttcttac actgagaaaa tacttagacc atgactctc acatgaatga gcctaactct 240  
 cttagctttt gttcttgatt cctcaacaaa cttgctctaa cagagttgca ctaagcatac 300  
 agtgtaaaat atactagatc attgcactcc attcctagac atacaaattt ctagcttact 360  
 ctatcaagtt ctaaggtttt aaagaattnt ccaatacta 399

<210> 11990  
 <211> 498  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11990

agcaacgctg ttacgacgga ttcaangcaa gncnnnncg tangttagaa acccaccctt 60  
 agtaaatgtg ctcttgact acttgntntg ttgtattaag ccagatgaa agaagggatt 120  
 cttcagtgcac cacagttttg taattcggct gctcgaatta ttttgcata cgaaaatata 180  
 aattgttgat aaagcgctta taacatgaaa ttcacagatc aaaatgatta agagggcatt 240

tggaagaact ttcacagagc ttttttgagc ttctcttatac aattattgta tgaactccta 300  
 aatttaaaat tgaagatgtg tggttaagct tatgataatg gcttatggcc cttctataaa 360  
 ttctttcttg ctcatcacia taagtttatt gaattaagct cttatgatata aagttctcat 420  
 ggaanaaagc ttttataatt atantaggac ttanataagc tattttccca agcgtgcaat 480  
 aagtcagag acaattcg 498

<210> 11991  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11991

agctgngtgn tntgcaattc taagacacta gagagcgggc aagtatatga catgtcccac 60  
 ttgtactttt tctatctaata ttgcatcctg caaaatcaga atatgaaaaa cctgttatgt 120  
 ttaaggaggt acctttaaga taccacataa gcaaacactt agcatgatata ccaatctact 180  
 tgcagatagg tagagaagcg attcaatcat acctctgtat cttgattcat ccactaattt 240  
 acctttctca tcaaacgtaa ggtaggttga tgtagacata cgagtaaatg cttctttgca 300  
 ttttttcata ccaaatttct ctatcgagtt tatgcaatat ttgagttgac tgaagaaggc 360  
 tccatgtatc aattgcttga c 381

<210> 11992  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 11992

tttgagaaca ctmnttagtt atgctagagc ttagctacac acacgcctct tgtaactaag 60  
 ctcacctct tgagcaagct ccttaagaag agtcctatag aagatagagc ttagctacac 120  
 atacctctct aatagctaag ctcacctgct tgagatgaga agctagagct tagctacaca 180  
 cctctacaa tagctaagct ccccccatg acaaagaaca tgaaaataca aaaaaaaagt 240  
 tcttactaca aagactactc agaatgcccc gaaatacaag gctagaaccc tatactacta 300  
 gaatgggtcaa catacaaggc ccagaggaag gaaaagctca tctaataatnt acatagataa 360

gcggcgctcat acttaggccca tgggctcgga atctacccta atgctcatga g

411

<210> 11993

<211> 380

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11993

agtttctant atgttgcatt tcttccttga tgctcacttc gagctcaaata aatccttggt 60

ctgaaaaact gagtcttctc cagaacatat ggattgaatc cagtgggatg caaccaacaa 120

catatttgga tagctcacia gcacaaggaa gaccgtgctg ggttctcatc acacaaccac 180

aagtggaaatg attcttgcta gcatagtga catgctcaaa ttcagcagca atctgggtta 240

aagcatacct tgaaccatt ccaagaagcc tctnttataa gggttttttt aagacatgtc 300

caacgacatg tgcacttggt tcaaatgata ctctaatttt cgtgtgttgt agcgtcatca 360

tggtgttcat ggcattccag 380

<210> 11994

<211> 394

<212> DNA

<213> Glycine max

<400> 11994

catgttatcc atgttgtctc ctctatctct aacagtgact acaggacaaa gttaacaata 60

agccgggaat gtattaatgg catgatatgg tacctgcac aacttgctat ctattagaag 120

cttatccaca taatcttgat gcagggtcaat aagcacgcta aaacttcttt aacatgaatt 180

cggagagagt ttatcaatgt atgatgcgaa cctgattacg agcggaatgt ttgatacatg 240

ctatggagtt ctggatgacg ccacttccaa agagggaaga taagtcattg tagatgccac 300

ttctggtgaa tgaagataag tcagggtaga cgccacaagg attaccttga taagtctgat 360

aattggttca acaaggaacc cagagagaaa ctct 394

<210> 11995

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11995

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tgacttacaa agccatggaa ccagcagagt gactttctgc ttgcaaatt ctgataaata 120  
tgcacctga aatagtgggt atacagctct tcccgtcatc caaggaagac tagtagttgt 180  
cactattgca acatgtctct cattggccaa tcacaaaaca agctttctac tatgatgcca 240  
cataagtttg caatgcaatc agatttgaat aaatttgaa aagagaatag catatcgaat 300  
gaatcttaac ttgtataaac taactgactg tctagaaacc tactacagaa aaagcataga 360  
tctaactctg ncagctcatc aataattgat attgcaccaa a 401

<210> 11996

<211> 497

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11996

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actacctaaa gaactttgac ctgagtgaac aattaattac cttggcagac ttagtacctc 180  
acttcctagt agtagttttc ttaaataagg tagaaacaac tggctcaggg gcaggggttc 240  
aacaagtcga gccgtcaaaa gtttacagag tgtctctcgt ataacttttg taggcacagc 300  
atcttctgaa agtacatggt ttaagattga ataatttgaa aggattcatg actttgagac 360  
atatagttga gctcaactgt tttaaataca gtactttcaa catattattc ataatcaaga 420  
ttatgtttga ttaaattcaa tatactgttc aactataggt ctagtaataa atctccctat 480  
aacgaaatnt agaaagn 497

<210> 11997

<211> 222

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11997

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ttgagacaca tgtgtctatt tatagcctan tacatgggaa gcttccttga ccagcaacga 120  
 aggtagcttc cttggcaagc taggaagaaa gcttccttga gaagctagag gatggctact 180  
 cacacccctc caatagctaa gctcacccca tgccaaaaca ca 222

<210> 11998  
 <211> 472  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 11998

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 aactgctgga atttttatca ttatgtgtaa tcgattacac aatgcagatt gtgaattcaa 120  
 attttaatag ctgttgtaaa tcagttttgg cacttggtaa tcgattacat cctctggtaa 180  
 tcgattacca gagagtaaat ctcttgaaaa agacttttta acttaaattt cttggccaaa 240  
 ccttttgcta cttcaatagg aattcccttc ctattttaat atactctttc taagactcta 300  
 gaaactgtct tgatcgtcca tcttgaatat ctttgtcttg aataaagctt tgagaaacat 360  
 gtaacccttt ggcaagcttt ccctttggca tcatcaacac attcagcttg atcatttgtc 420  
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<210> 11999  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <400> 11999

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 ttatgaagag aggcataaac caggtggata aagatgaatc ctaaactgaa ttgggaaagc 180  
 agatgtaggc tcaacaatga acattgagac actcatgaga gctcaagctc aagttccaat 240  
 cgctacacct ccattcccaa cctatgatag atgtcagatt gtgcatgggc cagaagaatg 300  
 cactattgat gataagctag ttgtagccat gcttacggga ggaacaattc ttataatttg 360  
 tccccaaaa atttcaatca aggatagggc tttaagcata attac 405

<210> 12000  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12000

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 ttcatcangg aactgatgaa atgatgaaat tgcagctttc ccttctgtag tctttgactc 180  
 ggggaagtat tacttcagaa atatatcaac aacttcttcc cacgtcttta gactgctacc 240  
 cttaaatgaa tggagccacc tcttggtctc tcttgccaag gaaaacgaaa ataggctgag 300  
 tttgatggct tcatctggta tgcttgcaat ctttacagtg ttacaaatct caatgaatgt 360  
 tgccaaatgt gcatag 376

<210> 12001  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 12001

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 agaccaaacy aagttgtgag tttttctatc aatggcggca tagattgact aatgcagcca 180  
 gaatagctgc ataatgtaca ttggaaggga ggataggaca tatttagcta aacaaagtca 240  
 tccagcccta ttcaaaagtt tccctttcca tgaagctagc cttctatgaa ttttatccaa 300  
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 gccaaagttg gaaacactcg cgatgccaca aacatccttg aata 404

<210> 12002  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 12002

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 cctcagcaac acaaccaaca acacgagaat aactatgatc tttcaagcaa tagattcact 180  
 tcacgctgga gagatcatcc aaatctgaga tgggcaagtg ctgcacaaca acaacaacct 240  
 ggacgtatatt tgcaaaatgc tgcgtggcca agcaagccat atgttctctcc tccaatacat 300  
 tagcagcaat agcagcagtt acaacaaaga ctacaagcac ct 342

<210> 12003  
 <211> 199  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12003

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 gtacctggag atatgtcgcg ggggtcacga gaccttgggg acgtcaggcg gggggctatt 120  
 gcccacaacc aagcttgacc aatcccaccc caaccggcc ataccgggtc aatgagaacc 180  
 tgcgatgtcc ctaaacagg 199

<210> 12004  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12004

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 ccgcgagag gggaccgga gcggcgaagg cgaaccgacg agggcgaaac ggcaagaaaa 180  
 agcacgagcg ccaaccgcca cgcaggcgca caggaccaca ccggacagcg gcgcgccgag 240  
 agccaacagc gaaaaggggg agagcgaaca nggcgaaggc agaccgaca gagcggccga 300  
 ccacgagcac ggacgagcgg ggccaggcgg cccgagagg agcgaacgag aaaaggcgga 360  
 agacgagaga agggcgggcg gggagcccaa aaagcgggg 399

<210> 12005  
 <211> 401  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12005

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tccatatttt tttccacat gaagcccat gatgtccaag aagatcatat ctttctaaag 180  
gcttttcctc attctctgga gggagtggca aaagattggc tatactacct tgctcccagg 240  
tccattttca gctaggatga ccttaagagg gtgttcttgg agaaattctt ccctgcatct 300  
aggaccactg ccatcagana agacatttca ggcacagga aacttagtgg agagagcttg 360  
tatgagtact gggaaagatt caagaaattg tgtgcaagct g 401

<210> 12006

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12006

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ccatgtggtt ttctttcttt cttccaaatc catttctaaa gttccaaata ctttctccat 120  
caccacatc caccattagc caccacaaac catcattggt ctccattgaa aaccacacacc 180  
gagaggaacc cttcaatcga agcagaattt ccaacttggc ttgcgatttc ggtagagaac 240  
gaacacccta atctgatctt tcattntctt tcgaggtaac catggntcta tgcttgnttc 300  
ttgttagttt catcttgtct ttgcattctt tctaactttg caaccgccat tgcatgtctt 360  
atngcttctt tgaaaaacct tagagaaaga gaacttgtaa acattatcct ttcatgaaat 420  
gcatgttatt nttgtaacta cactgaaccc cggcacatt 459

<210> 12007

<211> 238

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12007

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ctgctcaatt tcgagcctct cgacatatta tgcacccgaa tcggacatcc gtgtgaaaag 120  
tcatgatcat ttgaatttct cgagagtttc cgatgtttta tttcgagcgt atcaatat 180  
tataaccgtg aatcggacct cagtgcgaaa agttatgacc atttgaattt gacgagag 238

<210> 12008  
<211> 337  
<212> DNA  
<213> Glycine max

<400> 12008  
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atttcaagcg tctcaataga ttacgggact caatcagacg tccgagcaaa aagttattgt 180  
cgcttgaatt agcttagagc ttcaaaattc aatttcgacg gtctcgatat attacgggac 240  
tcaatcagac atccgagtaa aaagttattg gcgtttgaat ttgctcacag cttcaacatt 300  
caatttcgag cgtgtcgatg tattacggga ctcaatc 337

<210> 12009  
<211> 578  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12009

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accgacaccg annnncnnnc annccannnn ggcagcgccc catnccccctn ganaccccg 120  
ngagannnng annngnnnng gggggnnnnn nnagagngga nnnnggagaga ggggaagnggt 180  
tgttggaaaa gnggaaaggg annagggggg gagaatagaa gaaggagaaa aaaagaaggg 240  
gagagggaaa gaaaggggaag aaggggggag aaggaaataa gagaaggagt agagaaaaga 300  
ggtagaggta ggggaaggag gaggagaaaag ggaggagata aaaggaagaa ggagaagtgt 360  
aaggggaatg agaaggaagg gagggggtag atgagaataa ggaaagggaa gaagtaagaa 420  
gagaagtagg ggaaagggat gtagtaggga gaaggagaga attaaagaat ggagaaaaga 480  
taggagagaa aggaggggaat taaaaaggaa ggagaggaga ggagggggag aaggggagaag 540

aatgagaaaa gagaggggga aggaagatag aagagagg

578

<210> 12010  
<211> 89  
<212> DNA  
<213> Glycine max

<400> 12010

acctgaaact aatgcacctc gaaattgcct gcaaaagagc gagataccaa actatgatta 60

tatggaggat ttgaagacgg taagacttt 89

<210> 12011  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 12011

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ttgaaaaact ttgaaacttg aaacttgaaa cttctcttga atcttgatct tgaatcttga 180

attgttcttg actcaatctt gaaatcattc tcatgggctt tttgtcatca tctttgttat 240

catcaaaaaca ccttgaatca atcttgattc atcatcatga agcaatgaag cttgcttcta 300

cagagaagag aagaatatta ctgcaagaca ggacagtagt gtccattctt gaggaagaaa 360

ctcattnttc tgattcttca tcatctgatt caccatcatc 400

<210> 12012  
<211> 493  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 12012

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cagctcgccc aggcgagcaa ggttgcttct tccttatttt cagccttctg gaggaatctt 120

ctggagggcc caagtgggcc tgggtgctat ttgcaccctt atttttacta aatacacccc 180

ctgccttttt tttggtgatt cttttttcgt aaagttacgg aaacttatga atttcgtaac 240

gatacttgtt ttctttccgt aatgttacgg aaccttgccg attacataat catccctttt 300  
 ttgacttacg gaatgttacg gaacctcact aattgtgcaa cgatgcttcc ttttgatttc 360  
 cggggtgtca cggaacctta cggattgtgc accaatatta tattatgatt tccggcacgt 420  
 cacggaatth atcatattgc ctaatgatgg gtgcaagcac cttaaaatga ccaaacacaa 480  
 gttgcatgcc acg 493

<210> 12013  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 12013

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 tttttactcg gatgtctgat tgagtcccgat aatctattga gacgctcgaa attgaactct 180  
 gaaccttaga gctaattcaa acgacaataa cttattactc ggatgtctga ttgagtcccg 240  
 taatacatcg agacgctcta aattgaatgt tgaaacctct agctaattcc aacgacaatg 300  
 actttttact cggatggccg attgagttcc ggaatacatc gagacgctcg 350

<210> 12014  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12014

tattatggcc aagcgaataa canagttagg tgccaaatct tggttaaatt aatgtggaaa 60  
 ttccatatca attattatgc ttacgcttca ttgttaaaag ctggaccaca caatacaaac 120  
 tcaggagcac cttaccatat atatatatat atatatatat atatataacg caaaacacgt 180  
 aaaagttgca tcatgttttt ttggtaagcc attgaaatgc attaataaaa aatcgcacaa 240  
 gatgtgtcag gtgtaattta aggactccga tatatcattg ttatccggcc gtacttgtaa 300  
 tggcagtgaa tgtgaggcat tgttcagtac tctgaggatc acatggaact atgata 356

<210> 12015  
 <211> 390

<212> DNA  
<213> Glycine max

<400> 12015

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gatggccttg attttctcag ggtccacttg gaccccatctt ctaccaacta caaaacctaa 120  
gaaaactata ttatctacac aaaagggtaca cttctctata tttgcataga ggggtgttttt 180  
cctaaggact gaaagaactt gtctgagatg tcctaagtga tcatctaggc tcctactata 240  
cactaaaata tcatcaaaat aaacaactac aaatctacct atgaaatccc ttaagacatg 300  
atgcataagc ctcataaagg tgcttgggtgc attagtgagc ccaaaaggca tcactagcca 360  
ttcatacaaa ccaaacttgg tcttgaaagc 390

<210> 12016

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12016

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tacctactac aaagactact taaaatgcc tgaaatacaa ggctaaaatc ctatactact 120  
agaatggcca aaatacaagg cccaaaagaa ggaaaaacct attctaattgt ttacaaagaa 180  
aagtggaccc aaccttggcc catggggtca gaaatctatc ctgagggttca tgaaaacccc 240  
agggccttct ttagcaactc tagcccaatc ctccctggagt cttctatcca atacccttgg 300  
ggggtaggat tgcacatcc cctccacctt ggaaaggatt ntacctcana tcccagaggtt 360  
tttcatactc tcgactnctt cctcaacac ctgtaaaaag aa 402

<210> 12017

<211> 278

<212> DNA

<213> Glycine max

<400> 12017

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ttgacttccc accaccaccg tgcttgttcc caagcatggg ggtgctactc cactgattct 120



ttattattca acttgcactg tcctattgat gaacaaaagg ccctttcttt tgctggacca 240  
tctccctcaa gtgaaaaatt gacttgaacc taaatctgct agttgctgcg ttcttgtcca 300  
tatcccgttc tctggacgca gggcaggta gagcacatat tattcaaacc tcgataaacc 360  
cgacgtgttc aatgtggctg taaatcaagc gacaaaaat gatttactat tatttgaata 420  
ccctacctcc agtatgatct tccctatata acccgaaccc g 461

<210> 12021  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12021

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gttctggtat ccttttagta actctaattg aacctcttat cagttcaatc acaagtttag 120  
tttcgacttt tgtaatccac cagagcaggc aatagttttt tttatccata ggaattgaac 180  
acagtaccaa gaggtttact acacttacac actgctcaac tagaataggc aataggctct 240  
tgtatctgta ggaattgaac acagtaccag gaggtttaca acaatcacac aaactgttca 300  
atcagaacat gcaatagtag ttctattact tatagatata catttgccat tatgtcatgt 360  
gcatatatat atatttcata tattaataaa aaaaattatc atctatttgc ttatctctaa 420  
gttggatttc 430

<210> 12022  
<211> 262  
<212> DNA  
<213> Glycine max

<400> 12022

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aggaatgccc catatcattt gcatgacacg catatgataa tgatgattag aaattcatgc 120  
gaaactgata atagcacaca tccatgtgga cactcaaaca taaagctttg tggccatgaa 180  
acacttaggc ttacggtttg ttttccccgt tcaatcaacc cagtggtttc aaacaatgca 240  
ctttcatcaa gttatgcaca ca 262

<210> 12023  
 <211> 538  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12023

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 aacggcagan agaagccaag ctgacgacac ggcgcccaca catttgtaaa ggagttacgg 180  
 acagggagcg gaaatctgcg atgacaagcc acaaaccac acccctgtgc cgacccacag 240  
 gagacgactc ccacggacgg ggaagacgat cgaaccagga ggcagcaaca caaaagaccg 300  
 caaagcggag atgggaggag agacagacgg gatcgaccag gaaaaagaaa gagagaaaag 360  
 cggggcgaaa agccagaaac agagaccac tgaaggcccc ggaggagacg gaacgcgggg 420  
 agaatgcgga cagaaaaatt aaagaaagag agaggaggcc ggaaaggcgg ggaaaatcaa 480  
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<210> 12024  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<400> 12024

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 cgcttcagac catccgatta gcgaagatag gcaaccacta agccgtaaga cgataatgag 180  
 ccgcacgcga ttcaaagatg cactacacgc acagcatgag caaacgcacc tataagccag 240  
 aatatgatta acaaagacca cagcatgcc aacaatctag agagagacaa gccaacgtct 300  
 aacagaggtg agagatccgc cagagaaaa caagaacacc ccacctgaac tgaaccacct 360  
 gagactcaga tgatacgcaa agatgtacat ccaaacgcga agagacgacc accagttgac 420  
 attcc 425

<210> 12025  
 <211> 407

<212> DNA  
<213> Glycine max

<400> 12025

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acgtagatta gatggctcta atcaaagccc attccttcct tctacgtatc cattatatat 120  
attaatgtag ttagttagtc agttatttca ttctatacaa aaacaaattt aaaaacttgt 180  
tgcggaagtt ttaggattaa actttatctc tcaattgggc ttcattcttc ttcctctctt 240  
caactctgtg atacctgtat tcttgcataa attccattgc tctttcactg gtgatgatta 300  
ttgaaggcta aacaaacaat caatccaaag atccactcca tgcagggtga acttgagttc 360  
tagtttagta ttcaaatttg agtgaatggc atcttttttt cattcta 407

<210> 12026  
<211> 399  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12026

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gaattgccat tccttggatt acgngttga accaagctca tgcttttaca aaaaggctca 120  
tcaagtcaag ttgaaatatg gaagtaaccg tcttgcaaaa ttgtggcaaa agatgaatca 180  
agtcacatca ctgcttcgtc tactgcaaaa catatttagg attgttgatg tccttggtac 240  
ttccagattc accttggcaa agatgtcatg gaccatgttg aatatctaaa ttgattcgac 300  
cccatatcct gcgtaacaat ttgcaatact tcaattgtac atcattcgca tacatccatg 360  
cttttcattg gttgcattgc tcattgcatt ctttccttg 399

<210> 12027  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12027

ccctcagtc gcagaaccaa caactttaga ataattatga cttttcaagc aacagatata 60  
atccgggtgg gaggaatcat ccaaactctaa gatgggcaag tctccacaa caacaacagc 120



# 2025年12月

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<223>      unsure at all n locations
<400>      12028
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<210>	12029
<211>	409
<212>	DNA
<213>	Glycine max

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gcaatcgaat	aaaattggaa	cagagatacc	atctatatgc	tgtatctaata	acattcatgg	120
agaaaacaat	attgaaatac	gacggtatgc	gactatatct	ttcggtgaaa	aggaagttat	180
tatatgttta	caatatatct	ctatagcaga	tttttacatt	cacccttttc	ttgtatctct	240
ctattatacg	ttatttatct	cattctgtac	tttttttcc	tcttttatgg	cgcttttaaat	300



catcactaca gacacaatct tatcattagt cacaccacat actgactatg tgaagagaca 480  
 tcgaaacctt ccgacacagc tgcctgatgc tgccaagcat gcacacaagc ctcaccagca 540  
 gtacttcgcc agatagagac gcatctaggc aagctcacca ctcaatgaga tatacatata 600  
 gcaacaccca atgtcc 616

<210> 12032  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 12032

aacccccacc aattgtgaac gcattccaac cccccgggcc tgcttactaa accaacaaca 60  
 cggacagacg gtttacatgc gacaagcgaa gaccacaaac cactaccggc gacagcaact 120  
 agaccactgc cagacacaaa aaacgacgta aacaaagcag aaacgaaaaa cgggactgaa 180  
 aacccgccag caacaagaca atcgaaaaac aacgaaagga tagagaaaaa cccaccacaa 240  
 cggaggcaag aaacgccc 258

<210> 12033  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12033

cagcttgtcc ataaatatat gtnntttgaa gttgtcattt caattttctta ctaagtaaaa 60  
 tggatcattt tcaaggtcca acgccttata atgatcacct cttaagtaaa aaagaaatca 120  
 cttgataaga aagaactacg tangtctgat ttctcatca caaattgagg aatacgtagg 180  
 agcaaaggga aacacccttg tcgaccacaa aaagagaaaa atataaaaag ggtataagga 240  
 tatatagaca taaaaaggga acatataaaa tcaaagtcac gtttgcacat tcgattaaag 300  
 gctgccgtcc cttgggacgg acgtgtggtg tgctaatacc tttcccgtag gtaaatacaa 360  
 ctcccggaacc tttctcttaa tagatcgtag atcgcgcttt ttccg 405

<210> 12034  
 <211> 169  
 <212> DNA  
 <213> Glycine max

<400> 12034

cattatctca ttgtattttc taggatcatc attctgcatc acattcgaca gtgactcgga 60  
 caaagattga atcatttgte gtatcccaga cagtcatcta ggtaatgtca aatgccatct 120  
 gtactgttta ttacattagc tgcccttctg ggctgcatcc ataaacgtg 169

<210> 12035

<211> 453

<212> DNA

<213> Glycine max

<400> 12035

tattatatat tcttagatcg agaccccaca caccatgacc gtgcgctgaa cgcaagaaaa 60  
 cacgtgcata agcagagcga ctctggccaa atcatattct catagtagag acttcactac 120  
 tcagataacc cagatacata ctctatctta cgatatgtta agcgtaggat cgacatgaca 180  
 gattaagtga aagtgcctag tagatataat ggcatatga cctgtgggaa tctgtataaa 240  
 aggatgagaa gcacatacgt gctgattgcc cataacgctc gatgcactat gcagttttac 300  
 acatgagcta taattctgat gaccaattcg acatgactgt tctgcataat atggcagata 360  
 cccaaatcat tcttttctac atgccatttt gataagatgg atgctgcaag cctagatatg 420  
 agtaatcgta ttataccaaa caagctctaa ccg 453

<210> 12036

<211> 582

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12036

ggatggacgc ccncntttg atngccagct tgaatngcgc ttcgnannga ccncncncn 60  
 nttnccggaa gannaccgtc ncngnacncn ncnncangnc gcnannatnc anacagtctt 120  
 tttcataata tatttatgta cncgtgtgcan gtcacaaga gacccatcga agattnagta 180  
 tgaactgact ccaaattgga cacatcgtac acattnctta cactaacaat ccgacatggc 240  
 gtgatcatca tacatagcgc gatacggctc taggttcata ccgaccgata tgctcgctcg 300  
 tcaatgaagt gacgcgacac ctctgtcacg acacgataac acggctcact atactcccta 360

gaagaatagt atgcaactaa cgactaataa acaatttaga acgagccata tcctcatatg 420  
 agtacgataa ctaatagtgc gacgttactc aatgaccatc tgcataaaaa tcaactaagt 480  
 cattctactg tgtctaaacg taaatcgcta atcactgctg tcgtcgtcaa cactgtaaag 540  
 caaacggcga gatcattgga ctgactggat atatgtgtac cc 582

<210> 12037  
 <211> 619  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12037

tatgggggna cgggcgtaga gaccgtcgta ctaccctgga agnacactac gtactatacg 60  
 gcgaatncta gctcggtagc ccgngatgc ctctagaagt cgtacctgca gggcattgcc 120  
 aagccttctt tgatgcanna ttgagnnnta tccctgtctg agggatatgcg ctatcaaagt 180  
 aggtngacat ntcagaaatg agtttgaagt ttcgcatgaa cctttgtcaa tagacttagg 240  
 tgatttacat ttacatgcgt ggtttcattt gccgcagtag tacttcaagc attgtattga 300  
 caaggagaat gtcattgtga tcgaagcaca aatgcctgca caatatgcaa cgcattgtcg 360  
 gtgggtgaca actgccatgc gtggtcttga agtgcctaac atagatccta cttatgcaaa 420  
 aatgagagca gtatggtttg ccttactttt caagctgtta agcaaatagg tgataattta 480  
 agaaacgtca gatcatggca catgcctgct tgtgtatgta attgtanata aagaaaatag 540  
 acttcgggtg caattatgag tcgcatttat tagtagcttc cgttntgatc ggttngagaa 600  
 gctgcttata ttcnacatg 619

<210> 12038  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12038

tatacgctat taaattatga attgtgtaaa taaccgtgcg cganaggatg ctgacactac 60  
 gccacggctg tntcttgaac tggtactgng actatgccta cgtgaatcat cctacgaagc 120  
 acataanatt gaacaagtta tgtctttaca tgaaaacata tctaattggtt ccaggaccat 180



<211> 358  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12041

cacaacaagt ttttccacat ccacaatgcg cgcataaacc caccatcccc tgtagccac 60  
 ctncaactga gctcacgtac tcccacgtag cccatatcct cgtttctctc aacaccgggt 120  
 ccccatcaat cctcccaagc ttccccaaca tcaaagtaat acaacattca aacagcacia 180  
 actatcacag ccaagaaaac agagcagagg cagaanactc tgccaaaaca ccaacaaaaa 240  
 tcacagcttt tctcacttaa agaccccagt acaattcctt cgtccaattc gtaaccgtgg 300  
 atcgactcaa ttttactgaa gtcttagaca taacctacat ttgaccgggtg gatctact 358

<210> 12042  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12042

agcttgaacg agctgatgaa tcatgtcgtg caaacgccgg agcggcactg ttatctggca 60  
 cgattgttan gattcgacta ctctatccaa tatcggacag gtaatgtgaa tgtgggtggca 120  
 gacgtgttgt cgcgatgctc agagttaccc aatgctgctt acttcgtcct ctccatgccca 180  
 cattntatat tccttgaaga tctctccaaa gagttgcagg cgcataatga gtatgttact 240  
 ctacgagaca agattcaaata gaaccataa gcttatccag ggtatgtgct aacacctaata 300  
 tttgtgttac accattggcg catttggtta tcttcatatt gcaccttcat tcaagctcta 360  
 ctcacagaat tccatcagac accaactggg ggtcacatg 399

<210> 12043  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12043

attataggtt tagttattta ttgcattcca tctgacatta tctgtcatgc tacatctatg 60  
 atattgagtg aggcataacc gcataagcat ataatacaaa ctcttctagt ttattgatta 120

tgaccagaca ccagtccttt attatgcctt gaacaggtgc ttattcatta agttttttaa 180  
gttcttggtc tttgcaatat gaatacataa acttaagata aaacttatag aaattagaca 240  
gttctgtgaa ttacttgagc aagagcactc agcgtctgtg gtatttcata tacatataaa 300  
gaatgaatac tttntacact tacaaggaca ataataagga gttaatatat agtttacaac 360  
tgattggtgc atgatttgat gtttcatgtg agagaatctt caccctactg atactgacaa 420  
acagtttctt ttg 434

<210> 12044  
<211> 393  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12044

agcttgacgn ctcctttctg atcatggtcg aactgaacag aaagtaccca caaacatgca 60  
ctaaattgcc tataaactca aaacgtgttt aattgaattt atgttaaact ctgtcatatg 120  
tgttgacatta caattatgag gcatctcact gctaaatttg gctcagcttg gaccttctgg 180  
ccttgctgcc aattggcttg ataaagatag tttactgcat cgctcgattgc tctctanggc 240  
caatctctag gacgactnta aggagtttat cttattatta tgacatagag gttgattgga 300  
ttagaatatt tgaatactgg aacttcaaaa gagtcagatt actattcatg ccttattctg 360  
gaatatgaca gtttgcttga tgtttatgta cct 393

<210> 12045  
<211> 391  
<212> DNA  
<213> Glycine max  
<400> 12045

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aatttcttac atgacgttga gattgagctt ctatgctgaa gtggcacaac ttcactcactc 120  
ttaacactat gtcatagctt caagcattat gtgattaatt actttagaga gacttagagt 180  
gagtctagtt gatgttgagc tagtgatgtg tccaaggta tactgagtag tgctcttaag 240  
tccttcgatt agatgcgtct catcagtgcg tttcatggac aacttcatca ttcaacaatc 300



ttgcatcttt gtatgcaatt agttcttact ttctaattgtg cctccaatga ttatggaagc 360  
aggtgaaaag tgaagaactg ccaaatttga g 391

<210> 12046  
<211> 430  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12046

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atataacgag acgctcgaaa ttgaatgttg aagctctgag ccaattcaca cgacaataac 120  
tctgtactcg gatgtctgat agaatcctgt catatatcga gacactctaa attgaatggg 180  
gaacctctga gcgaattcaa acgacaataa ctttttactc agatgtctga tactactctc 240  
agaatatatc gagacactcg aaatcgaatg ttgaagctct gagcatattc atacgacaat 300  
aacgtgttac tcggatgtct gaacgagatc cgacatacat cgagacgctc ataattgaat 360  
gtngaagctc tgaggaaatt ctaacgacaa taactntnta ctctgatgtc tgagcgagac 420  
tagcacatat 430

<210> 12047  
<211> 470  
<212> DNA  
<213> Glycine max  
  
<400> 12047

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ttggctcaga gaggcaacat tcaatttcga gcgtctccat atattacggg actcattcag 120  
acatccgagt aaaaagttat tgtagtttga attagcttag agcttcaaca atcaatttcg 180  
agtgtctcgt tatatcacga gactcaatca gacatccgag taaaaagtta ttgtcgtttg 240  
aattggctca gagcttcac attcaatttt gagcgtctca atatattacg ggcttcaatc 300  
agacatccga gtaaaaagtt attgtcgttt gaattggctc agagcttcaa cattcaattt 360  
cgagcgtctc gatatgtgac gagactcaat cagacatccg agtaaaaagt tattgtcgct 420  
tgaattggct cagagcttca acattcaatt tcgagcgtct cgatatatta 470

<210> 12048  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<400> 12048

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 acgagtcgaa ccaaccaatt ccaaacaagg tcatattgca ttgacttggt ttggtcattg 120  
 aaggcatgca ttgatgcagt tgcattttgt acaccattg tgcaaactga tggaaacatgg 180  
 atatatggaa gatacatatg gatgctatta attgcattta cataagatga ggctataaac 240  
 atatctacat tgggtattcgc cattgtcgat ggtgagacag cagatgggtg acacttctgt 300  
 ttttttcttt gcgaacttga gatccatgta cacccaacat ggatatgtta atctatga 358

<210> 12049  
 <211> 181  
 <212> DNA  
 <213> Glycine max

<400> 12049

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 cgaccaacga aatctgtctt tggccaagag ttgagttcaa ggtgccacta tggaaacgta 120  
 tcccttaata aacctccgat agaagcctga caagccgaga aagcctctta aagctctggg 180  
 a 181

<210> 12050  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<400> 12050

agctttttga aaattcttat ggtcataact tttcacacag atgctagatt aaggcgcattc 60  
 gcatatagag agactcgaaa atgaacaacg gaagctctcg agaaattgaa atggtcataa 120  
 cttttcacac tgagggtccga ttcaagctta taatatattg atatgctcga aattaaacat 180  
 cggaagctct cgagatatct aaatggatc aacttttcac atgaatgtcc gattcggggcg 240  
 cataatatgt cgagaagctc gaaattgaac aacggaagct cttgagaaat tcaaattggc 300  
 ataacttttc acacggatgt ccgattcagg cttataatat atcgatacgc tcgaaattga 360

acatcagaaa ctctcgcgaa atttaaattgg tcataacttt

400

<210> 12051  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12051

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atcatntgaa tttctcgaga gggtccgatg ttttaatttcg agcgtatcaa tattttataa 120  
ccgtgaatcg gacctcagtg tgaaaagtta tgaccatttg aatttgacga gagcttccgt 180  
tgttcaatat cgaatatcac tatatgtgat gcgcctaaat tggacattcg agttgaatgt 240  
tatgaccatt tggattttctc aagagattct gttgttcaaa ttcgagcgtc tcgagatctt 300  
atgtgatcga atcggacatt cgtgtgaaaa gctatgacca tttgaatttc tcaagagctt 360  
gctgtgggtca atttcgagcc tctcgacata ttatgc 396

<210> 12052  
<211> 377  
<212> DNA  
<213> Glycine max

<400> 12052

agcttggtttg tatctaatat gcttcgggga gattctgtga atgatgcgaa acgagccaaa 60  
atatgcaatg tgacagattc acaagaaaga tgtcgcgcga taaactcaag attttagggg 120  
tgagcgtgag tgtactacta tagcaattca cttaaccatg tttcgagtaa ctgcgttatc 180  
gagatgatgc gctatgcgat agagacattt ggctttacgc tgtctctctt gcactgcaac 240  
atgggcccac ttaaaattct ttggcttagc aagccatccg ctaagcggta gcgagagacg 300  
attggcttct caacatgctc gcttagcgag ccgttctacc gagcccaagc ccaacatttg 360  
agattcaaata atataga 377

<210> 12053  
<211> 345  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 12053

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 agtcttgtga gacacaactc agagctcaac ttctctccct ttntcttccct tcaatatcgt 120  
 gctccccact ctttctttct ctccctcttt cttttcctca attgaagcat cctctccaag 180  
 cttcttatgc aaggctcatc ttggcgtgaa gctacttctt catggctatt cctaacggat 240  
 ggcgctcctc tccctatctt ctttgcttca gtgatctcca ttggggaaat accattaagg 300  
 accccttgag ctcaagatca gcctctatca gaacagcttt atcag 345

<210> 12054  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<400> 12054

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 caaggaaatt aacagcgatt aacacaatac attgtagagg caacgcaatg ttcaattcga 120  
 ttactcaaaa acgcgtgtgg gaaacatccg taacattgag gttaaccgct tatactattc 180  
 agtagcgact ctgacggcga cacacattta ccttagtaat acagacgcga gtttctcgat 240  
 agacctaacc aacaaccact aggcacttgc gatgaactta tatctgattt catactcaca 300  
 aatgacatcg tacacatgaa ttcatactca cttatactta ct 342

<210> 12055  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<400> 12055

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 acgttccctt cacaaggtta ctctgactat ctcgataacc gaatacacgc tctctattcc 120  
 tactttttca cgaatctctt tgccaccttc gatctccgct tcatatcaac gttagcgctcg 180  
 gaatgtctcc ctctttcgat acctacctcc tcaactatacg ctgcctcgct agttcatgta 240  
 tegattcact ttcttagatg attgttcgtg ctgaatatca tttgtgatta gattctctgc 300  
 tctgttctat tggaccttgc acaatgaaga ctatagggtt ggcggcgcgga cctgagagag 360

[illegible]

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<223>      unsure at all n locations
<400>      12056
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<210>	12057
<211>	252
<212>	DNA
<213>	Glycine max
<400>	12057

<210>	12058
<211>	443
<212>	DNA
<213>	Glycine max

<223> unsure at all n locations  
<400> 12058

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cgcaatacac ttgtattgct atggatagcg tccaagagaa gcatatgatg tctctgagat 180  
tccaagcgcg cagtagcttg ttccaagata gtgtgatcga catctaatat atttcacacc 240  
tcacgaactc ctcgcattga aacatataag atatgttgtg atcttcagtt ctcaaacaga 300  
gagatcttcc aagaccttta tctatgagca ctattgtaca cgagtaatct atattcaata 360  
gacatttaga atgctctgac aattggcatt ggaggcgggt ttgcctcaat gtgtcttana 420  
tatacttcat ctaaccacg tag 443

<210> 12059  
<211> 345  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12059

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tgttcaagtt ggttgcaaga agaagaatta gaagacttgg attatttgga taagaatntg 120  
atgggagtcg aattcatttt tgacaagtat taatttgact atggatcttg atcctaattc 180  
ttttcattgt tcaattctaa atatgtatat ggagatctat aatacattcc tctaattcta 240  
tatacaagag aagttctaag gggggagata tataagttga aatggctcat gtacgttggtg 300  
tcttaagatt ctgngctgga tatagtatct agtttacttg attat 345

<210> 12060  
<211> 194  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12060

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tggtacctgg agatatgtcg cggnggtaag gagaccttat ggacgtcagg tgggtgtgcta 120  
ttgcccanaa ccaagcttga ccaatctcga cccaaccgg gcatagtcgg tcagtgagaa 180

cctgtgatgt acct

194

<210> 12061  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12061

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aagttattgc gaattgcatt ntctaccacc ttttgttttc cattaccagc atctcgatat 120  
attacgggac tcaatcggac atccgagttg acaggtatta ttggtttgca tttttacaag 180  
cttccatttt caatttcgag cacctcgata tattacggga ctcaatcgaa gatccgagtc 240  
aaaacttatt gtcgttngaa tttgctcaca gcttctgtat tcaatttcaa gcgtctcgaa 300  
atagtaagag aactcatcgg atatccgagt taaaagttat tgtcatttga atntgctcag 360  
agcatcttgt cataccctaa tttcgtccgg ggatctttgc ttgatgacat gcgacctttc 420  
tttggcc 427

<210> 12062  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12062

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cacacatcca ctaagtcgta caagtgttga gctgtcttct angatgctct tttgactagc 120  
tgttgnnttg tctaattaag gacacatctt agttntctgt tttgcttttt taccaaattg 180  
tctttgctgt catttccctt ttaatcttat ccttagttat aggcacanag agtggctata 240  
tatattcttt cctctgtaan tatacgacta tgaatgaaat gtgttttcat acattccggt 300  
atagtctgtg tcgtttctct ctttttcctc ccttatatcc aatcttattt gacatttgta 360  
atgtattcca gcaattccag cgagtgtgtc ttctgctctt tnnghaaaata cctgaaact 419

<210> 12063  
<211> 359

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12063

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attgtccaag cttcaagccc aaagggctcc agcgtgaggg ggtatactag aaatataata 120  
tagaattgaa tanttttttca cccaatagct taagcttatg agattggagg ttcttgacag 180  
ataccatgta gacagaacaa aaaattcaaa ttgatcatat tctaagactg gaanagctgg 240  
aaagggaaaa ggataagggg aagctgcat ggtgtgaaca atngtgattg gatggctgtg 300  
tactcccatc aacaagagat agactcatca aagttacact agtggttaca gcccacacc 359

<210> 12064  
<211> 447  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12064

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aggctcgtca aacccaagat ttgcacttag tgagtctcac tagttcacia aacccaaggc 120  
ccgtccttgg taagcctcga cgcacctcta cacgctnttc aaaacctagg gcaaacacgt 180  
ccctgggtgca aggctcgtta aacccaaggc tcaccttgg taagcccttc ttttgctaag 240  
ttccatcttt acaagatctc aaggtacaca aggtcaaccc ttgacaattt ttcttaccac 300  
taactgttat atgtgcaaga attcatgttt gcaagaatat caaaaaccta aggcccgccc 360  
ttagtactaa aatctcaagg tctacccttg atacacactc ttacaaaacc caaggtaccc 420  
ttttggtccg cttacttgca acaacaa 447

<210> 12065  
<211> 232  
<212> DNA  
<213> Glycine max

<400> 12065

atgtgataga gcctaagtca caatgtgggtg gaatgcacct tctctcaata gcaacttggg 60  
cgaagccgaa ctgatccat gagaggcaga accaagagta gagccacag aaaaggctaa 120



gcccgaatca aataaacatt aaaatatagt aactaggaag tgatcctagg tcgttttcca 180  
acgagcaatg ataaaccaga agttcataat atacttgcag taacagtaaa aa 232

<210> 12066  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12066

agcttgatata catgatttng aattttatga tcctaatagc tccgtgtttg ggaaacataa 60  
aattcctctt caatgtatcc atttacgaaa acactnttga catccatttg gtatagtttg 120  
aaatccataa cacaagcata agcaaataga aatcttacia cctctaattct agctaccggt 180  
gcataggttt aaccaaagtc tatatgctct tgttgagtat agcccttggc tactagcctt 240  
gctttattcc taatgatcaa accatgttca tccgatttat ttttaaacac ccatntagt 300  
ctaattggtg gcataatctt agaataagat acccaattcc atacatcatt ccttttaaat 360  
tggttcaact cctcatacat ggacattatc caaaactcat ctttaagtgc cttctctata 420  
gacatgggtt ctacttgaga cac 443

<210> 12067  
<211> 370  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12067

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tttanagtgg agggcacttt cataaatgac tatataacta gtttaaaaat agaatttttag 120  
tttaattagt gggtgactag cttaaagtgc taattatatg atgtagaata attaacataa 180  
gttagagttg taacaccctg aaaaattaca actcagacta acaaaggaaa ctctgtgttg 240  
tgtcattggt gcatgtatng aattaatttc attaattata tggttttaat cagataattt 300  
catgttggtg gtgtgtatgc atgtgactga tttagtaaag cttgatagag aaataanaac 360  
tatctaacct 370

<210> 12068  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12068

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 tggtattTgt gtgtatggTc aattagtagt ctaagccttT aatgaagaac ctaagtcatt 120  
 ttgcaagtat gattgtaata ttaagtacga ttgtgtgtat ggtaaattTg gccttgacat 180  
 gattcaaaag tggatcctTg tataagattt gcataaacta tntagataag gtatctaaga 240  
 gaactTgtan caataagtta aaaacatctt catagctctt tttttcattt ntaaataatn 300  
 tgactcattc aatggTgtac tattatacag agtTngacag tgattntcac cataataatt 360  
 caaatattga ttttcatagc aacaatacac tgcacatgaa catctcatcc ncttacatgt 420  
 catgtacaag tgatgaaact ctcatgcctt atcact 456

<210> 12069  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12069

cttatgcact tctctctttc tcanaataac tgaggaaaat tagttccgtg aagaatatcc 60  
 aagccgaggc gcttccgtaa cgtttccgtg agtgatttcg cgaaggtttt cgactgttct 120  
 tcgacgttct tcattcgTtc ttcagtcttc accgggtaag tacttcaaac caagctttta 180  
 attcattcta tgtaccctgT gtggTccaca tttggtttca tgtatnttta ttctcgtTgt 240  
 catttacttt ttataccccc ttttgacgtg cttaagccat ttatttaagt catttctcgc 300  
 ttaatctaac aataaaaataa a 321

<210> 12070  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12070

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 gaaaaggctt ctgaatttct ttcttttggc tgagtgagga gagagaacag ctttttggtt 120  
 ttaaataaaa aggggttttct ctttttctat tattttatta taaactatgc cacatgtctc 180  
 catttgagtg gagcaaaaag ggcccacttt ccccttttga ctgtgacca tactcagcca 240  
 caaaagttag aaaaatctga cctttgaaac gctaaaatcc tgctcggtt tgcgtgctgt 300  
 ttctcaggtt tcagttcctc gcgttttctc gcgtccgtcg gggccagttt tcgaaaagtaa 360  
 ccaatatata tatc 374

<210> 12071  
 <211> 443  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12071

atgataacca aagatgatga caaaggatgat gacaaaaaac tcanagatca atcagagaaac 60  
 aactcaagtg aatcaagaac aattcaagag ttcaagaaaa gaatcaagaa gaattcaaga 120  
 ctcaagaaga aatttaagag tcaagaatca agattcaagg ttcaagatct caaaaaatcaa 180  
 gatcaagatt caagattcaa gaatcaagag aaggcttaat caagataagt ataaaaagtt 240  
 tttctccaaa attgagtagc acatgatttt tctcacaaca tgtttaccaa agagttttta 300  
 ctctctggta atcgattacc agattgttgt aatcgattac cagtagcana attgttttga 360  
 anaagttttc aaattgaatt tacaacgttc caattaattt canaaaactg taatcgatta 420  
 caatgttntg gtaatcaatt acc 443

<210> 12072  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12072

agctttattc tcttaatcca aacctttgca aactttttaa gagattcttt taacatataa 60  
 aggtctattg taaatcgttt ctcttgactt cttgatcttg acttgaatca atgttgaata 120  
 gctctaattc tttggcatca tcaaaatctt aatacagcat atgcacttac aaattcaaca 180

caaacttaga acataatgtg ataattatta tgactaaaaa tgactctaag acaacatgaa 240  
tgaagtgatt acacttagat tattgtgttt tcttttctaa tctatatttt gcaagaatat 300  
tttgactgan aacatgattc aagagtagat ctatattatt gtgactgaat atttctatgt 360  
tntctaattt caagggttag cacaagaata tcttgattga aaaatgatag aaccctaaat 420  
caacatataa acatg 435

<210> 12073  
<211> 372  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12073

tggtatctga ggatcacttg aaattagtg ananaatcgt ttctgtgaag aacatcccag 60  
ccgaggcgct tgcgtaactc gtcgagacg tttccataag caaatccatg aagatctttt 120  
gccatccttc gttcgctctt cgatgctctt tgggtcttcaa ccggtgaagt tccgaaatcg 180  
aacttttcaa ttcattctat gtacccttgg tgggtccccac ttgtttcccg tacttttatt 240  
atcatttcat ttaccttccg taccoccttt tgacgtgctn tagtcattta tataagtcat 300  
tttctcgctt aataaagaaa taaaataaat tttcacgcat catttgaatt gaacatctgt 360  
aatttctgta aa 372

<210> 12074  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12074

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gaaacagatg aaagagatat gaaatgagaa aatagaacat aatagtgtag taaaatattt 120  
cgttttttaa aatcatttgt acaattgcaa tcttattcat gtgaacttgt attaaataat 180  
attctagttt gatatatata tatatattcc atttgatttt gattttgcta tnttttaaaa 240  
aaatttaaca ggcataatta attatggaga gatagaatcg aatatcatta gatattgggt 300  
accagcatat tattcaattg tatttacttt cgggtgtacc cttgtatttg ttatcagcac 360

gttcgatatt gttggctctt attggcgacc taatgctata ttgag

405

<210> 12075  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12075

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gtaactcact ctatgaatct ttcactcatc ccattaatat caaagatttc ttctagataa 120  
acttatctag agcaatgtgt gtcacatgca atttaagttc ataaatggtg cagatcattt 180  
ctatgttgct agtgtacgaa aaaacgtggt cacatacaca catggcgaaa taaaaggata 240  
tattttggat ttaaattata ttataatcaa atgacatatt aaaaggtgta cctattgatg 300  
agttcttgaa gcataaaaat tcttcaatag tgtacagact ctacgtgtat ccacatcgat 360  
actgacctct attcgtcaac aactttgaca tgtaaaaaat aagaatagag aagtg 415

<210> 12076  
<211> 259  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12076

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tccgctaagc gcaacactca tgggctaagt gagaggaaca ctctagaaga agatgagttg 120  
tatagggtcg ctaagcacac cgcttcatct cactaagcgc accacttaag tccatccgct 180  
aagcgagaaa tgcacgcgct atgccataat cactaatgtg tgctaagcgg aacataattg 240  
cgctaagcac acaagcacg 259

<210> 12077  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12077

acccggcgta aagaggaact atgataagag ctacgtggaa gtccgtgagc ctacgtgagg 60

tgggcaacag gggatggtgg gtttatacgt gattttgtgga tgtggagaac tgttntgcac 120  
 tatcgcccga ccgccaccta gtaccacatg tgatgggtac ccataatcc tacaagcttg 180  
 aaatgaggaa gtgtggaaag gtgagacttc ctactcttat tcgctgacca cagagtggta 240  
 cctggagata tgtcgcgng gtttaagagac cttcgtgacg tcaggtggtg tgctattgcc 300  
 canaaccaag cttgaccaat cccgaccaa cccgggcata gtcagtcagt gagaacctgt 360  
 gatgtaccta aacaggcgag cttctggcag tcaaccga 398

<210> 12078  
 <211> 332  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12078

cgaaagggaa agaatagctg ggttgccctc cactaagcgc tcttttaacg tcactagctt 60  
 gatgcattgt tctgttatcc aggatccaca agagtcccta cttcgaggac cttcttctca 120  
 cgtctctttt cctccatcac atgcactnta caacacacat tgtggcttgg tggatctttc 180  
 gcctcatgga acatatcaaa gctgatcttc tgatcttcta tgcccatctg caatatcttc 240  
 ttccctatgt ccaccatgga acttgcagca gacatgaatg ggcggccaag aatgagagga 300  
 atgtcagcat cctcttctat atctatgaca at 332

<210> 12079  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12079

agcttttgtgt ggagcttcta tggatgaatga agaagaagag agctacgtga gagagggaga 60  
 gaanaggctt ctgaatttct ttcttttggc tgagtgagga gagagaacag ctntttgggt 120  
 ttaaataaaa agggttttct cttattctat tattttatta taaactatgc cacatgtctc 180  
 catttgagtg gagcaciaag ggcccacttt ccccttttga ctgtgaccca tactcagcca 240  
 caaaagtgag aaaaatctga cttttgaaac gctaaaatcc tgccctcggtt tgcgtgctgt 300  
 ttctcaagtt tcagttcttc gcgtttctct gcgtccgtcg gtgccagttt tcgaaagtac 360

caatatatat atcaaaacgc tcagaataac accccgagcg tggttc

406

<210> 12080  
<211> 561  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12080

cgccgccctt gatcccntta ggaaaagcgc ttcgnannac cccnccnct tngcaaagna 60  
ccgngcggtc anagctgtct gcaataacca acatttatga ctatgtttga ctacaactca 120  
gagatcaatc ggggagcatt tcgtgaatca agaacaatac ttcatgttca cgaatagaat 180  
caagagtga tcaagactca tgagaaactc gtcgactccta gcatcaagac ataagggttca 240  
ggatctcctt catcgagatc aagattctag attcaagaat caagagatgg cttaatcacg 300  
atcgggtctaa caagtttgct tccaagatcg tgttgacat gatctttctc attacatggt 360  
taccaaagag tttttactct ctggtaattc gataccagag tgttgatgct gataccatga 420  
tcataatttg tttgaatagt ttatactga gtgtacagcg ttgtattatt ttaaaaacgt 480  
gattcgagta ctatgtttgt taatcattac cgtcgctatg agtcgttatt caagtctcat 540  
ggagtgtcga tgctttcctt t 561

<210> 12081  
<211> 416  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12081

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tccactctt tcgtcatgcc gggactcang anaccaaca ggttttgcct tttcaatgta 120  
ctctgaacaa aactcaatag cttctttggc aatatacctt tcaataatag atgcttcaag 180  
acagtctaga ttctttgcat acccttttat gatcttcatg tatcactcaa ccaggatat 240  
ccaccacaaa taaatgggac cacaacattt aatttcctc accagatgaa caattaagt 300  
gtgaaccatg atgtcaaana acanaggagg ataatacatc tccaactgac aaaataaaat 360  
agcagcctcg ttttcaactc atctaacttg agaggatcaa tgactntact acatat 416

<210> 12082  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12082

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 cttttataat aaactcaccn ctcacaattn tgtactgtgt gggttgatacc tgtgatgatc 120  
 gcgaaccttt gttcgtggga gcagaatgac aacagtagag tacgagaagt gagattcttt 180  
 tgtcgagccg acgtgatgac gttgggttta ttttgggaga gagttgtgtt ttgttaatca 240  
 actcctccgt agctgggttac ataattcttt tttctaattg aggatgtaaa tcacagaatt 300  
 aggtatatgt atgaacanat tcactttcca ttatgtgaat gatgtgtact ggagtactat 360  
 gcctatatat atatgtat 378

<210> 12083  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12083

gctgagcttn cttcttggca tccacctact aatcatgagg aagaagagca gaatgatgct 60  
 gcaggatcaa gtggagtcac agccattgaa caacaacaac agcaacagca gcagcagcag 120  
 caacaacaac aacaacaaca acaacaaca caacatcaac agcaacaatc agagtcttgt 180  
 ggttacaact ttcagctcca aaggcaattg ggagccttca tttcaacaca tgttgacact 240  
 gaccacatca atttccaaac caacaacaac aactcctcag aagatcttgg cctatccctc 300  
 cattggcttc aagaccaccc tggccttatt cagtggcaat cacaacaaga aggtgcaaatt 360  
 caaacacctn cttcagatga acaccaaadc cagcaaacc cttttgccag aatcaaccgc 420  
 agtggggttg agaaccatta tcaaagaagt gtgacttggga acaag 465

<210> 12084  
 <211> 464  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 12084

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agagaatatc atctctctng aaaagcaa at cacctgatct gcattcttta ttgcactcaa 60
atattcacca ctnggtgaaa catcagccac agaattcaac aaattctctc tgggtatcct 120
cacattatca aacctgaaga cacatgtgaa taatttctgc gtttactctt ttatataaaa 180
tntcattttc aggtgcaact tgtttgaaaa atgtatatat taccagatac ggccattatc 240
aactccattt aaaccaattn tgtgaccaca atcagctatt cggatgtttg gacatatgtt 300
tccatctgaa tccctgattt gngcaataaa tgcatgcacc ccttgattgc tccatttata 360
tagagctgtg aaaagactat agtgtgggtt gcatgctgaa taaaagaaca agttaatata 420
agggtaatat atacaaagtt ggagccagtg aaaaatgtat catg 464

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<210> 12085  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12085

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tgcttgggac gcgtgactgg tctagttcg caagattcca acccttcgta taccagaaga 120
agaccaaacy aagttgtgag tttttctatc aatggcggca tagattgact aatgcagcca 180
gaatagctgc ataatgtaca ttggaaggga ggataggaca tatttagcta aacaaagtca 240
tccagcccta ttcaaaagtt tccctttcca tgaagctagc cttctatgaa ttntatccaa 300
gataaaatcc aaagattgat ggtgttgtct ccttgcacc aaggaaaacc ctagatagcg 360
gccaatgttg gaaacactcg cgatgccaca aacattcttg aatatattct tcatgcgggt 420
ngggattccc ttggagctca tcatcgtaga tttat 455

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<210> 12086  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12086

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tgagcaactt gaagctcatg ctgcaaacad ttataataga cccctcagc aacaaaacca 180  
acaacaagag aataattatg atctttcaag caatagatac aattcagggtt ggagaaatca 240  
tccaaatctg agatgggcaa gtctccaca acaacaaca cctgtcccta ttttccaaaa 300  
tgctgctggt ccaagcaagc catatgttcc tntccaata cattagcagc aatagcagca 360  
gtcacaaca agacaacaag caact 385

<210> 12087  
<211> 398  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12087

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tgtgatagga tatgaaatct gatttagagg aaactgaata tcctctaatt atgtgtaatc 120  
aatactactt gtctgtagaa acacctgggc atttattttt gccttgaaaa aaagctactt 180  
caatatggga aaaatctttt tttggggggg aacatcaatg accaaacctt gtacctntc 240  
tgtagacaag ttaaaaacct acagttcagc aacatcactt ttctttcaca gctataatgg 300  
gaaaggatat tagcactctt tactatctag caataccaga gcatggccac acacctttgg 360  
aggctaattg tatcagaaac ttttaaggaa naatcact 398

<210> 12088  
<211> 410  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12088

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atttgaacaa ttactattt ccctatttgc atggtatggt tgaacaaata ttaagtatgt 120  
tatttgacta tatgggtttt atagataatc tatttatgat tgctgcttca tgattcttgc 180  
ttcatgagtt ggttggttagt ttctcaatga atgttgatg gatgttagt tctatttgat 240



<213> Glycine max

<223> unsure at all n locations

<400> 12091

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agagtttaag ataataacaa gatggagaag tattggtaga aatggagagg taaaatattt 120  
ataacacttt gaaaccctt caaaaccctt ttgacttctc atcattagtg accacctcga 180  
gagttacaaa ctctgcaatg tcgtcattta gggtttttct ccaattgaag caacatgtat 240  
catttaagac cacaacggtt atgacacacg gtgtgatcaa gatatgccta gactatcgtg 300  
tcttagatcg aaaggtcgtg attctttntg tctaanaagt cattaccatg tcacgtgcat 360  
cataatgttt gtctaagata nagtcgacca tccaattcat tggttatcta tcgagatana 420  
tacaactcag ccattttaa atagatgggatt cattt 455

<210> 12092

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12092

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cttgtgatga ataataatcct tgagaaagca agttagcgtt gtctgctcta tgtagctgac 120  
ctacctaatg ggatatgact ttgttgttgt gtcatgtaga aaacaattta tttttctggt 180  
acaagtgggt tgtgattcta ttgttttgca ggggaaaaat gtcagagtag aactcttgga 240  
gacagcacta ttacttccga gcacgttttag caaaattctg gatgttgtaa acagtgacaa 300  
cttgtcaagg gcaattgagt attattccaa tnttgtcagg gatgctcaca ttgaaaagga 360  
tgtaaagcan aactagaatt cttattcatt gtgtaattct catta 405

<210> 12093

<211> 401

<212> DNA

<213> Glycine max

<400> 12093

agctttaacc tcatcgcca tcacagctct tagatttggg agccaatcca atccttgtgt 60

**CONFIDENTIAL**

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<223>      unsure at all n locations
<400>      12094
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<210>	12095
<211>	548
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      12095
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5105 .

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tagtataccta accattctat gttaatcaac tacatattat atgatattct caaactcata 480  
tactatatgg aaaccttcgc attcattcct ttcataatta aacattatcc aagacttctt 540  
ctgctgct 548

<210> 12096  
<211> 402  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12096

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acgaagccca aatgcgtgct tagcacgaag ttagcgtgaa tagtaagcta ctttaggcct 120  
ataacaggaa ttagaagcaa aaggaaaaga taccactctg gagactcaag gttctctaata 180  
gaatacatat taagtctgag catctctaata aggggaaagt ctctatatat gtccattgtc 240  
cccttctcct tctctatcca tccaccttct tctatccaca ttaaccctta aattgaaagc 300  
ctctcatgac aatgagaggc ttaatccct tagttaggga ctgacagggtc taaaaagtc 360  
taagatgtat tatatgtttc atatctatca actgcaacat gt 402

<210> 12097  
<211> 423  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12097

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ntgcttcaag attaatacaa gattgtttca acaaacaaag ccttgattca agatttcttc 120  
aagatcaagc cttgcctcac aatgaaaggt ttcaagtcac tcaaggcaca tgtaatcgat 180  
taccaatggt ttgaaagtgt gtaatcgatt acacatcata tgtaatcgna taccagagac 240  
tctgaacggt gggaattcaa attntaaatg aagggtcaca actgttcaag aaaaacaact 300  
gtgtaatcga ttacactaat tctgtaatcg attaccanag aggatntca aggaatatcg 360  
ccaacagtca catcttatca tttgaatttt gaatggccat caaaagccta tatatatgtg 420

<210> 12098  
 <211> 461  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12098

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 actccaagta ggcctctgga tcattctttc ctttaaattgg aggaatgttg agtttaatac 120  
 catcaattcg gttttgtcta agaacacccat cattccctct tctcctcctt tcttcttcat 180  
 tatgatctct attctccatt tgatccaacc tctcatggag cgcacatctt cgttgcttca 240  
 ttaacctctc caaatgttgc atcanagctt gcatttggaa ttgcgaaagc cccactccat 300  
 cattatngat agtacctgac atctcanaca aacaaatcaa acgtaacaag acaattagta 360  
 gtgctgggtg aataccctca cccactcagt gtatcacaca attatggctt ttctctaattg 420  
 aaacactctt ngctttttacc actctaattct ccttgagtct t 461

<210> 12099  
 <211> 370  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12099

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 gttccgagta cattggattt ggtacgacca tgccctctg atttccagct gggaaattgg 120  
 cgagtggagg aacgccccga catttacgca gcgagcataa tgtaaaccctt tacgggtttta 180  
 aaagctctat agttgggcct aggcntaga gttnttctt ttggttaaggc tgtgtgtatt 240  
 ttgttaggtt taatacaagg atctttcttc atttgttctt acgtctctac ccattctcat 300  
 ccattngcat gtttacttct ttatttctga aacggcagat ccgatgacga gtcccccgaa 360  
 ggtctaatac 370

<210> 12100  
 <211> 194  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12100

accttctact gaccctgagc acccngaatc ttcttcttac cgataggggt tttagcctcc 60  
caatgatttt cgtaccgatt tattcattca ctatttgata attaatccct actttttattt 120  
tctattgatt tctatttcac aatgaacttt taaaaatata atatacaatc ttaactgctc 180  
ttattatcaa atcc 194

<210> 12101

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12101

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tatcttcata ccctacttgt aacacaagat acaaagaaac aaaatgcatg taaatcacia 120  
atttcgtctt aaactattac tctgtccct aaataaattc taaagtaata acactattca 180  
agtaatccct agagtattga atattcatca ctgtagtccc taagttgatg tattggttta 240  
atgtttaagg aatattttga ggggtattgt aatattaaag ggaaaacttt gttaatntct 300  
aataattata ggactactta agtagttcgt atactttaac gatattttac ttttaagttg 360  
ggcgatcttc atcatacaag ataattgtga ggggttaagg aggcctata tattctaata 420  
tctgcatacc ctac 434

<210> 12102

<211> 297

<212> DNA

<213> Glycine max

<400> 12102

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aactatacaa acacattagc acccttggtt gtgttccatt ttccaaatc tgagagtcac 120  
cggccacgtc ggtgcactat cgtgtgtgga gaggcataac tttgatagca acagaatgaa 180  
acttgatct tgattcatgt ggggttctca tatctaaact attatgggtg gtggagattg 240



tcatgtgtga ggaggcaaaa ctctgatata ggtgccaacg aactcacatc ttgacgt 297

<210> 12103  
<211> 439  
<212> DNA  
<213> Glycine max

<400> 12103

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aagagatcca ttgtactggt aaacgttaaa acaaatatct gggagcttat ttgacccac 120  
tttgaaaaac gatattgaaa tacaatgaac aactaagtac tgcatacaag aagtagcac 180  
gtaaaactaca taattcaata atgggttacac tcgtaactat tgtgtcacat tagtttaaaa 240  
caagtacaac tttagcaciaa cttactacgt tgactagga cattagattc cacaagcat 300  
acagtcgagc aagcccagct gatctcctag gtcttctgact aaacaaagcg ctgattccag 360  
atggaaatgg aaataggaca ccatgaggga ggacaaatag aactaataag aagctcaaca 420  
gagacagcga gtacatctg 439

<210> 12104  
<211> 363  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12104

cgatacanac tccanattctc tntcaaagtg gacctcatct tataatatga tgatacaatt 60  
aatcaaacac cctctgctct gcaactgtaa cttccaatat gtaattctaaa ttgtatgact 120  
ctttcaaata ctatagactc taccanattc aacattcttt atagttacat aacacacaaa 180  
ctcagcatat tcttttagcgt agcgtgattc agcaaataga atatatacgt gccaaactcca 240  
naacgcttgt gcagtttgta cacctggatt ntgcctttgc aacttgact tcttgatttc 300  
caggtcctat ttcaccttcg ttctttcttg gcattccagt taaccctcgg aatattctac 360  
tat 363

<210> 12105  
<211> 413  
<212> DNA  
<213> Glycine max

<223>      unsure at all n.locations  
<400>      12105

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gggactagct tatatccaca tatcaccttg atgacaaagt gcatttggaa gacgtacgga    120  
atgctacgaa ggaggaacct caagcatgat taatggaaat gttacaacac ctgtgtacct    180  
taggaactac atctaattggc attgagagtt gagctgacaa tcttgtttgc cttatctttt    240  
tctgtctgcc atntccattg tccaattaat tctgttatga atttgttatt acaaaattac    300  
aaattctgct atttttaata ttatatatat ataggacca tgtaataaga cacaataatt    360  
gaaattacct agatatttcc atgcctctct tatttaggag gtcatgggcc tct            413

<210>      12106  
<211>      386  
<212>      DNA  
<213>      Glycine max

<223>      unsure at all n locations  
<400>      12106

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tntcatgggc ttgtaagtga agatcctcat aagcatctta aggagtttca tattgtttgt    120  
tccaccatga aacaccatga tgtctgttcc accatgaaac accatgatgt ccaggaagat    180  
cactatcttt tacaagctnt tctcattct ctggaggag tggtgaaaga tgggttgtac    240  
taccttgctc ccatgtcctt taccagctgg gatgaccttc agaagggtgtt cttggagaaa    300  
ttcttccttg catctatgac cattgccatc agaaaagaca tttcaagcat caagcaactt    360  
agtggagaaa gcttgatgaa tacttg    386

<210>      12107  
<211>      421  
<212>      DNA  
<213>      Glycine max

<223>      unsure at all n locations  
<400>      12107

agcttatatc acataattga caaactctta ataaactatg cttaagacca tcaacaagta    60  
aaacattttc tatggaggta gagggattca aacctatttt tccaactcca agaattntac    120

ctttgctggt gtctccatag gtcacatggt tactatTTTT ggaagaaata tgaataaact 180  
 ntgatgcac tcccatcatg tgttcagagc aaccgctatc aatgtaccaa ttatgcttca 240  
 aggagtcttt cattcatata atcatatntt gatttttggt cccanatanntt cttgngttct 300  
 taaatggttag ttatgactaa cgatcctttt ggaaccata ccatttttct aatgctacta 360  
 ccattctttc taatataaca tattgatgca ctataacctt tcttaccaca atanaagcat 420  
 g 421

<210> 12108  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12108

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 tgttcctaga attcagagac tacgagacct ccagataaaa ggagattaat gagagcaaatt 120  
 ttattgattg ttatagctng catttctatt acaatgattg tccatttata ggacacaaatt 180  
 acttattcta gttccttcta caagtcctac gatggaggct aacaataatg gatcttggaa 240  
 atatcctaatt acaaagatat attccagcag acagaatatt ctaattgccc atgatatggt 300  
 ccttttagtg ctgactcct tcttacctgc taacaattct tctgtgttgg gttgcctcaa 360  
 cataacaatt gattgatcca tataaaacac ctt 393

<210> 12109  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12109

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 agtatgacag tcaccgcttt aggagcgccg tacaccagca gcgcttcgag gccatcaagg 120  
 gatggtcatt tctccgggag cgacgcgtcc agctcaagga cgacgagtat acggatttcc 180  
 aggaggagat aggtcaccgg tgggtggcct cactagttac ccncatggcc aagttcgatc 240  
 cagaaatagt ccttgaattg tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300

tgaggctctg agtaaggcgt cagtggatcc catttgatgc agatgctatc ggccagcttc 360  
 tgggatattc gttggtgctg ga 382

<210> 12110  
 <211> 548  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12110

ccatcaaaga atgatgcaat cctatctcgc aagggcattg antntacata tgtacacaca 60  
 tctctatatt ttctatgcat caaggaaga ccccgcgcg catgctgttg tcaactcgata 120  
 ctatatatca tggcgcgcta cgaatatatc aaatgaccta catatgcatg ttactcctca 180  
 ccagatgtag cctgtgtcta ctggtaacat tatcacgcac aaatgcattt catctctttc 240  
 tagatcgttg atgatctcag aataactttg tcgagtcctt ttccaaaggg ctctggtctt 300  
 gatacccctg gggttttgggt taaaatcgac gactgcgag ttctccaacg acctgtacct 360  
 cgtataccat tttgcgcgag caggatgtgt taacaaatct tgaatggtaa gtgtcattca 420  
 actatagcta agcaacgcgt atgtatgaac gagtatgcc tcatatgaga gtgtacactg 480  
 tgataattca cgccggcacg aagacaatac cgtaataata ctgntcgggc tgaactctat 540  
 atggagcg 548

<210> 12111  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12111

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 aatctgtacc tgctgcaaga gtctgtggtt tgtgtcctc tgctgaccac catacatacc 120  
 ttngccctgt catgcagcat cctggagcaa ttgagcagcc ctaatctcat gctgcataca 180  
 ttactatag acctcctcaa cctcagcagg caaatcaacc acagcagaac atttatgacc 240  
 tcccatgcac atatacaacc ctggatggat gaatcaccct tatctca 287

<210> 12112

<211> 534  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12112

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ttttaantca tcgtgaacaa attaccacgt tttatattca gcacgatgag gtggttgagg 120
gctttacgcg cacacttctc atatcatcat tcagttatac ggaacgactc acagcatacc 180
tgtacgaatc gatagaacag ctccagtcta acagtacgct agagatggat tacacgcgat 240
gcgttggtatg tgttgcaaac ctgacaactc taacatagct aaatacttcg atgataagac 300
atcatatgtt tgattgtcga gagaatgcag ggaagctatc tggagtgtat ctagtttggt 360
agataagtat tgtaatgtac tgtattgagt accgaatata gtaggagtgt ataatacagta 420
cgtggaagat atgctatagc tataattatt tacttcgtcg actcctggca tttctactaa 480
tatgtacggt taatgttaat ggcgattaac atcatcgtag taacgaattg ttat 534

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<210> 12113  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 12113

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gagagaagat gaagaatgaa gtatgaactt tgaagactaa tttctcatca aagtttcaaa 120
atgcacacac aattgttctt tccctttttg tatttgataa catatggaaa ttgctctaatt 180
aactctaccc attttgcatt cctgttatct aacttgcatt gccctctaatt gtacttaagt 240
gattcatgat cactatgaat aacacactcc ttggaaacaa ggtaatgttc ctaagtttgg 300
aaggctctaa ctaaggcata caactcctta tcatatgtgg agtggttgag agtggcatca 360
tgaagtctct cactaaagta tgcaagaggg tgcccacctt gcaacaacat aggctccac 420
acctacac 428

```

<210> 12114  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12114

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 aagctcctta tctttccttt ccaactgtact ccacgcttta cggactctgt gaagtatttt 180  
 tgcattggct tcaatgaaac ctgcgcgac gaaaggcacg atgatctcct ccgatgaagg 240  
 acctctcata gggtagccta gttgtcttat ggctagcata cgattataat taatacaaac 300  
 cctcattccc atcaagggga catttgggaa tcttcacac gagcataaca cttctgccgc 360  
 tcttctttcc accgagggaa ccagctaata gacactccta ccatacctgg taagagttct 420  
 tcctaattag ctgttccctt gtcgacacac atg 453

<210> 12115  
 <211> 504  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12115

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 gtcactctga cgcattgcaac ttttttanct tttataaaag agaaggctcag aactatcacg 120  
 atgactataa atgccttgaa ggggatctaa gtgctctcta attattacat attatgattt 180  
 ggtggcatgc tcaccactga ttgtatcttt tgaaactcac cataactaat aaagcaaat 240  
 ggatccctta tacacccgat gcttaatcag acggatacaa atacggagtg catgaacaga 300  
 tgaaggccta cctttcagct gtattagatc atatggattc tattattata gccatgccac 360  
 atgttcgaaa tcactaggat acctgctaac cagccgctcc attactgcta ggacacgata 420  
 ttatgcttca ccccgatgac ttaagcttga ctaaacgcga aggtttaatg aaggatagct 480  
 ccactctacc gtacgttgac tccc 504

<210> 12116  
 <211> 537  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12116

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tactggttnc tctacetaa acctcagact ttcgaactca ctttaccgca ccaatgacgg 120

gccgtagagc caatcattct gcttttactg ctctttactt ccaccgatca caatgcagaa 180

taacttcatc tagtggcacg agcatccaat aagataaagg gatcattctt caccgtaccg 240

ctgctgtcca tcgacgtcac agtgcacgag gagcaccac cacacctatt cctgcctctt 300

tggcatgtac cagagtagta aactgggtga tgtggacgat aaccgcttcg gctcattcct 360

agagttcttt cataattaat taagacctga gttctagacc gtaagtcctg atcaataaaa 420

cgtctgtgga cagcattggt gcgacttatg gctggctggt acatgcatta cgtctgcaca 480

catcctgcct tgtaaagcct tcaactgaaa tacaatccag agcgtcactg ggcggcg 537

<210> 12117

<211> 429

<212> DNA

<213> Glycine max

<400> 12117

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atttaactgt ctttgggctt ggcggccacg atcaacagag tactttcgac acctactata 120

tgttgatttg accaacgctg ttatcggtat gttacgacaa tccttcaata ccttatttat 180

acattctgag aggttcgtta tcatgtggcc atatcgacgt acttctctat cataagccat 240

ggtccatatt tcctttgaaa tgcgatcaat ccatgttgct atggctgcga ctcagctgac 300

gaaattcttc taaattctga tcaacaacat gcttgctagg agtgtagcct gcatgtaatt 360

acttagcaac aataatctga agtatacatg aaacttaaca taacatgacc atgatacatg 420

atatcttac 429

<210> 12118

<211> 288

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12118

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tgaaagattg gtcttcagag tctcaatatg agtcgatggc gatcgctgac aaccatgaag 120  
aagattatga aaggctacta gatccaacac ctgatgagcc ataatcatcc aggaggccat 180  
agaggaatcc tcaactctca gctagattgc aagattatgt catgtttaat gaccaagata 240  
catctaatag agagagtatc aatattactt tatttgcaga ctgtgatc 288

<210> 12119  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 12119

gctattttat tatttcagct tctatatgga ctcttcacg ctcccggtta taggggcccc 60  
tgccacaact ctattagtag attattagag taacttatat agatccacaa taatttaagt 120  
ggataatttc gaaagcccat tgcagttgtt caatgggttg agttagagtt ccgctatata 180  
cattgccaga acgtaaatac aagtaatgcg attggaaact tattccaaca taattccatg 240  
ttaaactctct cttcttgtct cgaaatacta atatctaact aaactataga attactctac 300  
ggatattgca gtcattatatt cctctaaata tatttacact attactatat tccaaaaaca 360  
tataaattag aagagaaaact cataataaac ctaacccc 398

<210> 12120  
<211> 582  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12120

aatgcaggtc gcncnnttga ttaccgctgt taganacca atgcatntat gtgacactat 60  
agcctactca agctggtaga gtnttccaac ctacacaaag gaanattctt ataagtagag 120  
gtctgtaatt catggagaat gagagatgga gctagaatga tactgagaan atgtcaatag 180  
atggcccttt gcaagatcaa gatgagctaa ttgatgatgt acccatgata ggcactacat 240  
tgccctaaaa tatttatgaa agatgcaatg cagcagttct agaacctaca tgatattggg 300  
atgcaaagga ggatcctaaa tgaaggata caatgcaaga taagcttgcc ataattgata 360  
aatatcaaac ttgtgaactc gttgaaagac ctgaacacac aacagtcata agtgtgaagt 420



ggatgttttag aaccaaactg aatgcagatg gctcaatcta caaacacaaa gcatgggttag 480  
 tattnacgcg tatgctcaaa ttctcggaga ttttctctg atactttgtc ccgtggcagg 540  
 cggataccat ttgatattgt agtatccaac acataaggat cg 582

<210> 12121  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<400> 12121

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 cttttatccc cttttgacgt gcttaaccat tttattaagt atttctccta acctaaaata 120  
 cataaattcc accgatcggt cgaattgatt attcgaaact gtggtataat gaattccgac 180  
 cgtcggtcgg ccgtaaccac gtggagatct aaagaggtaa atataattaa tctctaaaac 240  
 gtctttatat aaaaagcgga aataatcgga cgtttctctt ggattctcat tctattgact 300  
 gctataac 308

<210> 12122  
 <211> 146  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12122

agctttttct gcttcttatt agagagggan ggtatgactt gtgttgcaat gccgcatggc 60  
 aaaaaaccaa ctggaatggg aatgtgcacc gactacacta atctgacagg gctacccta 120  
 gacgtgaccc tctcccagcg taatac 146

<210> 12123  
 <211> 200  
 <212> DNA  
 <213> Glycine max

<400> 12123

ctgctgctgc tccctgatcg ccccgcaatt ttatattttt cgccgggggg tatctcccat 60  
 acgagattcg atttctggaa ctcattagga gtcttttagat cgtatacgga aaaatgttat 120  
 atgtattgta cgtatgtctt ataactttta gtgtttataa cctaactctgg aaactttttt 180

gaactgaatt ttgacgtatg

200

<210> 12124  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12124

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attcctaatt ntcaacttac ctatttggat gtgacatcat ggcagatagg tcccaacttt 120  
ccatcgtgga ttcaatcaca aaacaaactt caatatattg gactgtctaa cacggagata 180  
ttagattcta ttcccacttg gttctgggaa ccacactctc acgtattgca tttaaacttc 240  
tctcataatc atatccatgg tgagcttgtg actacattac acaatccaat atctatccga 300  
actgttgatc taagcacana tcacttatgt ggtaaattac cctatctctt caatgatgtg 360  
tatgagttag acctctcaac caattcattc tctgaa 396

<210> 12125  
<211> 319  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12125

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acttactctg actcagttac ctttcccagt attctatgat gttccattct tctctcacga 120  
tcatectctc tcttatgcac agcatcagaa accaccttcc tcacaccttc ttcagtaact 180  
tccactgagg gcagttcctt cttgtgcaga gtctctgata tcaattcaga gagagccctg 240  
tcttcatcac caggcctcag ttcgtccacc aaatagtcct tcacagaaac ccgcttgtcc 300  
tgttccacac ccatactac 319

<210> 12126  
<211> 318  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 12126

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ttctcttatg attcgacgtt gttaacacac acatctttta gctttatata gacttttagag 180  
ctctcatctg ttgagagatc ccaactaacc attggctaatt agctttgtcg cttgacataa 240  
ggccactatt gtgcagagag agaattgtgaa gaccacaaac actttctgca gcatactctc 300  
aaaagagaca atttgtca 318

<210> 12127

<211> 256

<212> DNA

<213> Glycine max

<400> 12127

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tacttgctca aactggatgt acacctacaa ttccaccgaa acgaaatatg actcctcgac 120  
accaaat ttt accctacaca tggctcttag ctactatgg tgatttgcatt ttctctctgg 180  
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<210> 12128

<211> 461

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12128

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aataagatta gatntatata cttgctagat gcatagtcta ttaaaaagta atattacacg 300  
aagttttgga ttattgaatn tagtctcgta gcagtttatt atttattata aattgaanat 360  
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461

<210> 12129  
<211> 431  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
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<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
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aaatttttaa ttttcaaata attaaaaata tacaaaacac ctctcctccg cactcacccc 180  
caccgactcc acctttgagt ggcagaaatt cgtagctata tagtttgaga tcttgagcaa 240  
cttgaagaag aatcaaggga ttttgcaa atagaacttg acgtaagaaa ttcagatatt 300  
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<210> 12131  
<211> 414

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
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<210> 12132  
 <211> 443  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12132

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 tatacataca caaacttcat gatgaatctt gactatctac acaataaggt gctacatttc 300  
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<210> 12133  
 <211> 377  
 <212> DNA  
 <213> Glycine max  
 <400> 12133

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[illegible]

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<210>      12135
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<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      12135
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<211> 462  
<212> DNA  
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<223> unsure at all n locations  
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<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12137

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227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199

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aagtataaat attaattacc aatgtaggct tcaatatatt tattataaaa tttaattcca	180
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<223>      unsure at all n locations
<400>      12139
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<223>      unsure at all n locations
<400>      12140
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 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12141

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 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12142

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<211> 418  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12143

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ccttctgatg gcgcattggc acttatcccc gatccaacta caattcatgc ganagggttg 360  
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<212> DNA  
<213> Glycine max  
  
<400> 12144

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acaaaataaa tggaagtcca ctaagtcagt gcaatgattt ttgtccacac acacacaaca 180  
tatcaaatta ttgggctgca cctcgtacta tatctaaaga tgatgattgc ttgcattctt 240  
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ggatgagatg 310

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<211> 386  
<212> DNA  
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<400> 12145

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acaatatctc tactcaatca ataacaaact gtctccttac ccaccacca gttatccaca 180  
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<210> 12146

<211> 189

<212> DNA

<213> Glycine max

<400> 12146

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<210> 12147

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12147

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 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12148

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<210> 12149  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<400> 12149

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<210> 12150  
 <211> 214  
 <212> DNA  
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<223> unsure at all n locations  
<400> 12150

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<210> 12151  
<211> 446  
<212> DNA  
<213> Glycine max  
<400> 12151

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caagaaaaga gataaacaaa tgataaataa ggatgagaaa aataagtctg ttagctcgaa 360  
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aactcagttt tataaatgtg tataca 446

<210> 12152  
<211> 345  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12152

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345

<210> 12153  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12153

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taactctctt gagtgatact tgtattgggt gttatcttgg ttgttgcatc ttagtacatt 120  
tgatatttgt attacattat gcatcatcat ggtagtgtg aagaaaagtt tcaaagttag 180  
aaattttttt tcaaaggcaa aaattctctg ctttaatcaa ttacagggtc atcgtaatca 240  
attacaacaa gctatttgga gcttgtagag ttgagtctcg atcagtttaa ttgattacaa 300  
ctatctcata atcgattaca ctgttgtttg ggacaatgac tgatttatte aggagtctct 360  
actttaatcg attaccaagt ggattaatca attacttctt tctcgttttag ttgttttagaa 420  
gtgaacaaga acactttaat cgattactta gagcatctaa tc 462

<210> 12154  
<211> 422  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12154

ccttctggag gaatcttctg gaaggcccat gtgggcctga ttgctattta caccacttt 60  
ntactaaatg caccncttn tctatttatt tgtaattctt tttgcgtaac gttacgaaac 120  
tttacgaatt tcgtaacgat acttattttc cttccgtaag gttacgaatc cttacggatt 180  
atgtatttac tccttcttta cctttcgaag aagtcacgga aacttacgga ttgcacaaaa 240  
acacctcttt tgacttccgc cacattgtag aatttcacgg atcgcgcaag cctgcttcct 300  
ttagatntct gagacgtctc gggacttcat ttgtgtaaca aaggacgcca agtatctcaa 360  
agcggctaac caaagatcgc atgtcatcaa gtaataatcc ccggacaaaa taaggatatga 420  
ca 422

<210> 12155

<211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12155

agctntagaa cctgatttaa gacgttcaga aactgctggt aatcgattac acagtgcaaa 60  
 ttatgaattc aaattgtaat agctgacgta aatcagattt tgccactggg aatcgattac 120  
 catagagtaa atttgctgaa gaaagacttt ttaacttaaa tttcttggcc aaactttgtg 180  
 ctacttcaat tggaattccc ttactatata atataccctc tctaagactc tagagactgt 240  
 cttgatcatc catcatgaat atctctaag tctttgtctt gaatatagct ttgagacgca 300  
 tgtgatacta tggcatcact caaacattca gcttgatcct ttttctacaa ctacttgtgc 360  
 ttaatttcca cttattcccc attgctcctc tatctcttcg ggattaacta cttagtccat 420

<210> 12156  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 12156

ctcagggtcc acttatatcc catttctacc aactacaaag cctaagaaca ctatattatc 60  
 tacacagaac gtgcacttct ctatatttac atagagggta gttttcctaa ggactgaaag 120  
 aactttcctg agatgtccta cgtgatcatc tatgtccta ctgtactcca acatatcgtc 180  
 tctataaaca actacaaatc tacctatgaa atcccttaag acatgatgca taagcctcat 240  
 acagggtgctt ggtgcattag tgagcccaat aggcactcact agccattcat acgaatcaca 300  
 cttggtcttg aaagcgagat tgcactcatc actctt 336

<210> 12157  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12157

agcttggtgt tctccattgc actgatgacc atgacaggta cgtttcattt cgtctaccta 60  
 tgttggttcta ttgaatagct aggtctgttt ctggaacctt tggttaacct aaggaccttn 120

tttggtttct ggtgcaagga ttagggaact cgtcgtgacc tgagacccat tgtcactgcc 180  
attgaatggc cgagtctcga tgccattgtc agtgatgggt tcgaggcatg cttcatgtct 240  
tcattgtaac tttatgctat cgcgtacgtg ctctttgtgc tcacttctct ctgaagcatg 300  
tntatgttcc cattgtaatt ngttcttatg aaaactagat ggttattggt agttagattg 360  
gtaattagtt actactacta c 381

<210> 12158  
<211> 344  
<212> DNA  
<213> Glycine max

<400> 12158

tctagcaaga agcttctgac agtttatgac tatgataatg aggcagtgga agcaatgatt 60  
agttgctcag agaagagagg agccaaggca catagcagca cctgcaaaac caaaagaagg 120  
ttctggaagt gtggaagcaa aaggaccagt tgagagactt caaagtaaga aagcacaaga 180  
tagtggtgag aatggtgggt ttaacattga gtgcaggtgt ttggatcaag tggactcttt 240  
gggattgata atgatcacca atagaacgag gtaccttata aattggctgg tgaactccat 300  
gatgaagctg aagcacccta acgcagaggg gttcccctag tcaa 344

<210> 12159  
<211> 552  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12159

aaaacagaag agggannnaa gggtgagacc ttgaatacac tggactatcg gcgaannccg 60  
cgagcctctg agacactctg aggcattgctg gcgcgtgcag catgttatga atctgttcat 120  
cttcaagccc ttggcgagaa tatgcgcata atgcgttaca gtactgcatt actatccgtc 180  
tattggctga ctgatcacat tatcccgatt aatgtgagat attgctgtgg gcgctctgat 240  
ttacgagact attgaactat ggccaatctc ttcttgcatt tgctgcccac atacagtcct 300  
acctgtctc taatttctac cttctactct atccgcaagg agtctagcca taccgcttgg 360  
catgcagaat accacgctcg catgtactca acctcgcatg aatgaaatgc tactacatgt 420  
tgcaccttg aacaccagct tattggtgca cctaagaact tgatgagaat cccgtagtgc 480





<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12162

atttaccgga tttcttcttt ctattgttga ccaatttgat atttctgggt gtgtttgtgt 60  
tttcaatcgt attctgcatt gagcttcatt tatttctagc aaaactgcat cataattctg 120  
gtatgtctaa cttttttttt aatcttttgt cccttattga atgttcttaa ggaccaagtg 180  
gacaatttat tcaaggaatt gaaagagatc catgacaaat tcttagcact gatgatttcc 240  
ttgtgtgcag caaaaaacag tgacacggga aattctttgn tcgcaaaaca acacaagctg 300  
atgatgtctt tggtttggcc cttgtcttta ctcttcttgg taccttgnga catacttcta 360  
ccataatacc ggacacaacc ttttttctat ctacatgtct atgctatgtg gaagtgtgtt 420  
caatctgc 428

<210> 12163  
<211> 450  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12163

agcttataat aatgatatag cctatatcat ttccaaatat gcatgcgaat taggaagcat 60  
caacaagaat caagccaagg ctattgtgca agcgatcaat ggggcaaaac acaccaaagt 120  
attatgatga tggatgactc gaattctcac aaaggtaaac ttatcacttt cagattgagc 180  
tttcaaaact atcatgacat gtgaaggaaa cacatagatt tccaatcaca taatgtccag 240  
agacttttat gttcagaaca attaccatt acttgaacat atactataat tcaaagacaa 300  
acatgcaaat ttaacacaaa aaactaacia aattagacta gaacccgaca naactaacta 360  
aattaaacta atttaacaca actaacaana ccaaaaccaa agaacacact ccccgctact 420  
aatacttaaa caacacattg tcttcaacgt 450

<210> 12164  
<211> 276  
<212> DNA  
<213> Glycine max

<400> 12164

cttgataatt ctttgatagc ctttgacctt gttcccttcc ttgtttgaac tactacagcc 60  
 ttaatgaaaa ccatatttcc atatcttaag aatttggagc ttggaattgt tgggaaaagt 120  
 gtggggggtt tggtcttga caacttggtt gtggctatct tatgatgatt tgggcatctt 180  
 gtgacattga tatttgtaat gtgacatgct gagaatgtgt tctcaagcta agagtaaaaa 240  
 aaaaaaatca aaaaaaaaaat tcaaaaaaat cgaaaa 276

<210> 12165  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12165

agctcttggt gtctctctca ccaccaccct ctttcacctt atcagcaata gaaacattag 60  
 tttgagaaga ttgtgtttcc actgtgacat gaacatgaac atcctttggt gttgttgctt 120  
 catcatccat ttctgattgt gggttctcat tgccttgac tggaaattgt tgctgttgat 180  
 ggtgatgggt gctccttggt cttcttgaca tgggtgatgtc atagtgaagt tctgctgcaa 240  
 gagattgaac ctccattaat cttgctatct gggaaattta ctatgatgat aatctctaac 300  
 angctctctt tcaacttaatt ttgtgtgggt anactctctca aaggaagaa gccatcatgg 360  
 ctatagctgc acctcttaga cagcaagatc actcttg 397

<210> 12166  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12166

ctatcaagcc ttatctcggt attgtttgct ganactctga gggatgtact tcattgaggc 60  
 tgaagcaatg atctttgacc agtgaccacc aaagagaatg agctaatacc tcacctacaa 120  
 tctcgtaga gtatgaatca gattttgaag ttgcctttat tttttataag tttgttgggc 180  
 aggtcctttt ttttatccat aagaattaaa ctgggtaccg agagatctat aatactcaca 240  
 caccttactc aactaactaa agtaaatccc gttagtggca tgcatgggt taatatcttt 300  
 tagaatgggt aaacttggtc atgtagctag tccctttatt tatacgaggg ctaaactgtt 360

atacttgctt aagtttgaga ttcaagagtg agattntaga atcaacatga t 411

<210> 12167  
<211> 444  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12167

agctngaaga ggggtcttaaa gttctgacac caagtgttga tggatttgac acaactgtca 60  
gccatattgg aggtcagttc tttatttaga ggagaagtga tcagtttttt aattctgagg 120  
ctgtagcttg tgcttgcaat aacacctctt caactacagt tcttattcct cacagggaaa 180  
gggaacacaa tctctgtatc attgctcagt tgttttgttt attttgggcc ataactctga 240  
ataaattata taatgaactg gcttgtgaat gtgtcagcta ctgggtagtg tatattaaat 300  
atcagtgaag agctttctga acaatgcggg catttatcgc tgattccagc tnttggggtg 360  
gtactaaaca cgatgaattg tcttatgcta ggatagtgtt catttttaat annaccatat 420  
attagtatag tcagactgat tcta 444

<210> 12168  
<211> 253  
<212> DNA  
<213> Glycine max

<400> 12168

agcctgctga agacatcgta gagctctctg ataattatag atacccatga accagagatc 60  
gaaatcatcc acagtaacta tttctatgta ttattgcaa ggcttctcca cattctgact 120  
ttagacgaca gactatatct ttgtaagggg aactgacacc tgaactgaca tatacattgc 180  
actaacatat cagcagaagt gtgaagaaag ataacgagac tgctcaaaac atttgataga 240  
ctaacactat aaa 253

<210> 12169  
<211> 125  
<212> DNA  
<213> Glycine max

<400> 12169



ttatcccacg ctataaatac cagctcctgc attaatatg gttccatac

409

<210> 12172  
<211> 466  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12172

agtggagcaa tccatatacc caccctagn tattgtgaat cgtttttctt aaccgccata 60  
cctgtggata atgactagta tattcattca ctcatgggtc gaggtccgaa gagactttat 120  
gaaatggact taatatctaa gtgaaagggtc actttaagac tctaagttta agaagtatac 180  
atcttaccat ataatcgaga aggtacacna acccgctaac atgaagccaa aaagacacac 240  
gaagctttta aggataatgt gantggcata tagcttatac taagagcaag aagacacaca 300  
tttatatatg agacaagtga tattagatga cgcacacata tagatagata angtatctct 360  
atttgtaag tanatgacac acaaaagctc ttgtaaataa catatagata aacataactc 420  
tcttatacac taattatata gaactcntaa gtcttagtaa ctacta 466

<210> 12173  
<211> 367  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12173

agcttgtatg tgcgtacccc accattgttc atagtataac attggtaatg tgtctactat 60  
tattgtgatc atctctttct ccggcattgg aggtgccact tgagctgcca ggtctctcca 120  
cctttgggcy tattctttga aagatctgtg ccccttattg cacatgttct atagttgcat 180  
cctatccgga gccatatcag aattgtactg atactgcca acgaatgcaa ccattagggtc 240  
tttccaagaa tggactcgag aagggtccaa ggtatgtgta ccangtaaca gctaccagat 300  
aagactttct tggaagacat gtatcagcag tttctcatct tttccgtatg ccccatctt 360  
ccgacaa 367

<210> 12174  
<211> 421  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12174

tctacttatg tggcagggcg ggcttccttc actatcttgc ctcaaccgcg agctctgacc 60  
accgctcttt ctttccgcga tgcttctctn tatatccgcc tgagtgggtt tatagcctaa 120  
accatacttc ccacgatata ctttggcatt tatcaagcta gttatgccgc cgttgtcttt 180  
gcctaaacctt attccgggtt cgtaaccgtt cccaacaga actcggggcca tcattactgc 240  
tgcacgcggac aggcaagctt gccagagaa ggagtccacg gaggaatgc ttaccacctc 300  
ataagactgg aatgcggatt ctaatgactc ctctgcggct tccacatgag gcatatagga 360  
tgggcagctc accaagatgt cttcctcgcc tgatacgatg accagatgcc cttccactac 420  
g 421

<210> 12175

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12175

agctntanac tgttctctta ctttattcac agatcttaag ctttgaagta ttacaagttt 60  
gcttcattgc tatgtggtgc cacttggett atcaccggca accacctggt tatectgtgt 120  
aaaactccat ggtaccagag ggctagggag ttatgggctt ctctcangat gctaattttt 180  
ataggggtaa gcattntaga tntgatggat gagggaaatca ttaatttaca gttcaggttt 240  
tcttaagctc ctgagtcctg attgtttgca aactcattat attattggtg aggtgggtcat 300  
catactgcaa tatgtatcga caaattcata attcattntt aaaatattta gtggatcaaa 360  
acacgttggt atacattact ggctngcatt atctttgagc actgttctat gaattatact 420  
tctgctaagt caagtgtga ttaaattg 448

<210> 12176

<211> 349

<212> DNA

<213> Glycine max

<400> 12176

cacctatcta atcctattat gtgatatggg ttttgtctcc cttaatttgt tactaaattg 60  
 tcattctaac tgtgaatctg caggtgggtt tgttgaatgt agatgggtat ttccacagct 120  
 tgctgtcctt atttgacaag ggagtgggaag agggttttat agacaactct gcaaggcata 180  
 ttgtagtcac agcagacaca gcagaagaac tcatatagag aatggaggta cgatattaca 240  
 cgagacatgc tgattgtcat catgtttgaa gaggacgaga aaactaaatt gtatggtagc 300  
 cttgtaggta ggtaacaagt agtgaacttg ttattcattt gttaatttt 349

<210> 12177  
 <211> 448  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12177

agcttgcaat ntcagataaa acaatcttga acaagttatg cagcaacaaa atataagaca 60  
 acaaattaat atgacaatac acatggagat aaaaaaaagt atgaagatgg aagttagtct 120  
 aatggagatc atagcagcat gtaaaattca taagaatcag aacaatattg atagtctttt 180  
 tttattggta aaaatagtga tagaatttaa aataatagtg cattaataaa attcagaaca 240  
 attagaagct tattcttcaa aagcaaaata atatattact aagagtggta tagaatataa 300  
 catgtacca ataaaccac cattcaaagg caanaaatat attaataaan gtgatataga 360  
 atataatatg tatccagtaa cccaccatt caaaggata ataatatatt aatgaaagt 420  
 ctatagaaat taacatcctg tgatgctc 448

<210> 12178  
 <211> 373  
 <212> DNA  
 <213> Glycine max  
 <400> 12178

gacaagagtg gtgaaggaga agctgaatgt gccagtcact atgtgtcagg aaagaatgtg 60  
 atgagctaaa agatatcaac gtgaccacgg ttgaagcggt aaaacaggaa acgaataaag 120  
 ctcgaaagga agaattggagc aagaacaagt tccaaagggc tttgtggggc agcagtaacg 180  
 agctcaaact tataaaggct gagattgaca aatcaaggat ggaaagcatg gtgttagatg 240  
 ataagttaaa gatttgtcaa aggtcaaaga gaagtttgac agagcagttg agcaaaatat 300



aagagaatat gttgataatc attgatcaat ataaggagaa ggtgaaccta gttgctagtc 360  
acaggcagat gct 373

<210> 12179  
<211> 469  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12179

agcttgtgca tcaactgent tctcctttat tttcattggg tatganaagc tagatagatc 60  
aggaactatt atactcttgg aaaaaatttc tgtaattcag ccaaaaactat tttgagtcac 120  
ctaaaagttc caacttcatt gtttccaatt tctcttttac tttcttttgc acgttntgta 180  
tttctatttt agcattcctt ctgacttcat caattacttt ntgtgttcca agtgcagacc 240  
ttgttcccaa ttagtatacg ttnttttaac taggttaaata tataaatatt cttccttgag 300  
aaaatataaa caattggaag ctactatatt agcgtggcta aactctcctt caaggtcaag 360  
tatgagtcac gcaattctat ttctagaaaa naaaaaagag aanagaaaga taatttgcaa 420  
ttgtaaaacc tatatcaatt actaattcaa cgaaatatgt ctgtttctt 469

<210> 12180  
<211> 404  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12180

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caaattccgc ccatgtttct ggatcaaggc catacttgac tgtaggatca gatatttgct 120  
gaccttcatt gtcagcaaag acaaattttg aagtcaatga agacttanat tgcctccatc 180  
ttgctgcaac tgttgacatc accttttttt ttgcatntc accttcaggg atatcaaatt 240  
tgcgctacac aacaaaagga gttatgtaac agtatgtaaa tgaatccttt anaagtaact 300  
taacaacaaa atcatgaata caagtgtgaa ttacttacca aaatatcttt ccatattaag 360  
ctctntagat cgtcggngac aacattccaa ttcgcgtgta taat 404

<210> 12181  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12181

agctntcttg aganatcttc cttgataagc ttctttgaga aanattcctt gagaagctag 60  
 agcttagcta catacacccc tctcataact aaactcacct ccttgagaag cttccttaag 120  
 aagattccct actacaaaga ctactcaaaa tgcctcgaaa tacaaggcta aaatcctata 180  
 ctactagaat ggccaaatac aaggcccaaa cgaaggaaaa acatattcta atatttataa 240  
 agataagtag gcacatactt agcccatggg ctcgaaatct atcctaaggc tcatgagaac 300  
 cctaggggct tcccttggat ctctggcacc atctacttgg agtcttctat ccaatgctct 360  
 tgcgngntan gattgcatca ttccctccac cttggaaagg atttgacctc aaatcttgag 420  
 attcttcata ctctgggctc ccttcctcaa cacctat 457

<210> 12182  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 12182

gttaattaat atagttagta gcattaaata gttaactatg ttgtattatt ttgtcagaat 60  
 tattcttata attatcgga ctcataattc ttctcttttc acttaattac tttcccacct 120  
 aattaattaa tgggtgctag tcttctctatc taatccttat aagataggta atgcatttat 180  
 ctttttagta tataacattt attgtaaaat aattatgggt atttgggtca aaaaataatt 240  
 aatacaaaag ataacttgag aagactctta taagaaggga acaataaaaa ttgagaaaag 300  
 attattatat ctagggatag agtgagtatg tccgagcact aagccccttg ttgaaactaa 360  
 tggcatgctg acccctctga atacgacacc ctctcctctc atctttccct taccaag 417

<210> 12183  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12183

agcttgata aattactcgg aattggtaac tacattnttt aagctgaaag ttttactgaa 60  
 ttntgtagac atttggaacca aaattataaa aaaagaacca agcgatttgg attaaagaac 120  
 aaaattagaa aaatcacaca agttggatga aaaatcagtg tccaggaaaa taaaagtga 180  
 aaggaagtgt gcttggtggt tagctcanaa ttntttctat aattggtgcc tactttatac 240  
 cactcctagt tctgaaactt caattgaaaa taattatgaa aacaagtgcc aaaaatagag 300  
 gtttcttgag tctttntttc gttnttcttt tttagtntt ctactctact ctatagcett 360  
 tctaggtttg tctttgagtc ct 382

<210> 12184  
 <211> 509  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12184

tatgcgcata tntccttacg aacgttcact tgcacaagac attctattat ctaagaaaaa 60  
 atgcacccat atacaatcaa ggcagcttcg ttatctagat tatttacatg tacttccaag 120  
 ttgtatttga tacttacatc acacacatct ccttggetaa atttacatac atgcatactc 180  
 aaagcattnt gnggtaccaa aaattgcaca tgtgcacatc ttggtatttc taatacctat 240  
 acatacacia acttcatgat gaatcttgac tatctacaca ataagggtgct acatttcatg 300  
 ctcttttcaa gtttttgcta cctanagtcg catgcaaatt caagtatatt ttcctttgct 360  
 gactaanatt gtattcaaat tanaaggat antttttttt gaatggattt ccttacataa 420  
 catgcaacat atntatatat atnnttttgt gagacattnt gactaccann aaatatatgt 480  
 acataccatc cagtattntg ctatcatc 509

<210> 12185  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <400> 12185

caattcagag tcttcataaa tgacgaattg gtcttttagtt cttcttaagt acttaagtat 60  
 ggtcttaacc acttttcaat tgttctcacc aacgtttgct tgatatcaac tatgtacacc 120

taatgcataa gcgacatcat gacgtgtata agtcatgggtg tacatgatag cctccagtgc 180  
 actagcatat ggtactctac tcgtgtgttc tctttcttca cgagttgggtg gacagttctc 240  
 cctactaaga gtaaattcca cacctacagg caaatagcct tgtttggaat atccatgtat 300  
 atctcttaag atagatcaat gacatagatt ggagagtcaa gcacctattg atcttctcta 360  
 taattttata ccaaatatag tgttctccac atctcatgga aatgt 405

<210> 12186  
 <211> 542  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12186

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 ctagtngatt cnagtacgtt cgatgatgac aaagatgatg tacgaaaacc ctgagaatga 120  
 tctcaagaat aagtctaaac agtcaagatc acggtaaatt tcaaggttca tgagaagaaa 180  
 tcaagaagat tccctattca cgataagatg aatccangat tcaggagaag acatcacgaa 240  
 gacttcacat gggatgtatt gaaaagagtt ttctagcaca cacatagcac aatggttggtt 300  
 ttcaaaagaa gttttctcan aatattctaa gttaccgaaa gtcttactct ctggtaatcg 360  
 attaccagtt tcctgtattc gattaccagt agcagagggt gatgtcaaaa gcttctaact 420  
 gaatctgcac attccaattg atattaatgg tgtatcatta catatattgg aatcgatact 480  
 agtgttttga cgttgaatca catcagttgg agagtcctct tttctanatg cttgtgtatc 540  
 ct 542

<210> 12187  
 <211> 365  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12187

agctntcatc acatcttacg gcagtacatc ttgagatggt ttttgggacc agtcgtccct 60  
 ttatacttgt cgaagtccgg cactttgaac ttcgggggaa taacaacatc gggactaag 120  
 caaagatccg tcatgtctgc gaacggatag tccccaaatc cttccatggc cctcaatctt 180

tcctcaagga gatcgagctt nctcctttct tcagttgctg ggggcggtcc ttccgtggac 240  
 aaaactatag gtggtgccgc gatgtcnggt tgaggcaacg ttctgtgtgc cggcccttgc 300  
 gggatcggtg gatagaactc gacatccctt cgagcatagt cttgagggtc tntatggact 360  
 tcgtc 365

<210> 12188  
 <211> 235  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12188

ctttntataa aatgagaagt tctgaactca tcacgttata taataaacct tggagtggat 60  
 ccaagtgtc cgatcattca tttgcatatt catgntttgg tggccgactt caccgtgttt 120  
 gtttcttttag ggaattcacc ataactaaga aagcaciaag gcacccctat aacactcgat 180  
 ccagaaaaat ggataatcaa gagggcgtgc aagagcagat gaaggccgat ctata 235

<210> 12189  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12189

agcttgccac ccagctcgcc caggcgagca aggttgcttc cttcaaaagc aacagccttc 60  
 tggaggaatc tttatgaggg cccaagtggg cctgggtgct atttgcaccc ccatttttat 120  
 taaacacacc cctgccttt nttttggtga ttcttttttc gtaaagtatt ggaaacttac 180  
 gaatttcgta acgatacctt gtttctttcc ataatgttac ggaacataat catccccctt 240  
 tntttgactt actgaatgtt acggaacttc actatntgtg caacaatgct tccttttgat 300  
 ttccggtgtg tcacggaacc tagcggattg tgcataata ttttcttttg attcccgga 360  
 cgtcacggaa tttcac 376

<210> 12190  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 12190

tctatagaag gttcattcct aattttctcta caatagcatc acctctcaat gagtagatga 60  
agaagaacgt ggcattttacc tggggtgaan aacaagagca agcctctgct ttgctctaag 120  
aacagcttac taatgcacct attctagctc ttcttgacta ttataacact cttgagctag 180  
aatgagatgc ctctggagtg ggagttggag ttgtattgat acaatgtggg caccctattg 240  
cttattntag tgaanaactt catagagcct ccctcaacta cccacactat gatacacagt 300  
tctatgccgt aataagagtc ctccaaactt gggaacatta ccttatctcc aacgaatttc 360  
gcattcatag cgatcatcaa tcacttaagt aca 393

<210> 12191  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12191

tgctagcttt tagatccggt catggaaaga cttggcaact gccttcatta ggcagtacca 60  
atacaacacg gatatggctc ctgatcgga ccaacttcag agcatgacca agcgggagca 120  
tgagctcatt aaagaatatg ctcanagggtg gagagaccta tcagcccaag tcgtcccccc 180  
tatgactgac agggaaatga tcacgattat ggtagatagc ttgcccacat tctactacga 240  
gaagctgata tgatatatgc cggctaactn tgcagacctc gtcttcgctg gagaaagaat 300  
cgagctcgga ctgatgaaag gcaagtttga atatgcctcc agcgttgccc ccaacaacaa 360  
tagaagagcc ncagtgggtg gcacacggga gaaggaagga gatacccacg cgatcaccac 420  
cgccctaaca tggat 435

<210> 12192  
<211> 330  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12192

gtgcccttga cctgtctgan ncttgatggc aggcccggna gtatccattt tactttgttc 60  
taaccaagac cttggagagt cttttcgacc atccattcaa aagacctata tcttattgaa 120

attttagcta tctgatcagt cgactcttcc ctccatctga tcctcataag gttactaagt 180  
 tgagttttcg aatatgtctg atttatcggc acaaagttta ctttgaatca tcggatttgc 240  
 tcttccctct atgttatatt tttatgttct cgtcattttc ttcgtaacgtc tgttgccctct 300  
 cctcctgact attatcattg catcgttctc 330

<210> 12193  
 <211> 445  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12193

tgtctttcta ttgaggctga gctaaacgcc aacatgctgc gctaaactac aagcctcttc 60  
 nggtgtgaaa attgtacact tatgctaagc tcacgtgtgc gttaagccta ttctgcacaa 120  
 aaatatgggt tttgtgtcta tgaattaagc gccagcttgc tgtgcttaac gcttgagtaa 180  
 natttcataa tgcgcgctaa gctcaggatg gtgcgctatg tgactagaca atagtttagc 240  
 cttatatctc tgattttgtg aaataacctg tactaatctc ttgtgtttgt cttatatatta 300  
 tgnagatggc atcttatgaa gatgaataca cctatacac ctaccaagc caaattcnat 360  
 agatgcaacta tcacatgcc aagacgtggn gagagatata tatacattgt ggcgcctcac 420  
 gagctactac cagaaatgaa tgtgn 445

<210> 12194  
 <211> 226  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12194

atcacatgtg gtactaggtg gcgtgcggtc gatggtgcac aacatgttnt ccacatccac 60  
 tatgcgcgca taaaccacc atcccttgtt gccacctcc aactgagctc acgtactccc 120  
 acgtaacca tctctcgtt tctctcaaca ccgggtcccc atcaatcctt cgaagcggtc 180  
 cacaacagtc cagcaaaact gcattcacac cgcacaagct atcaca 226

<210> 12195  
 <211> 400

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12195

agcttctttt ntaaattggca ttactacac cgtcaaacan atatgaaaat aatcagctgc 60  
cgggtgtttgt ttggtagcta aaacaaggca gaaattgtaa atttaatgaa aagatcaatg 120  
gttaaggaat gataatgtaa actaattntt attctcaatt aatactcaat taattttaaa 180  
tggcattntc taattgatat aattnttaag ataattctat taacaaatta acanattgtg 240  
attttggta attgtattct tcaaaagtgt tttttttatt aatatgcttg tctaaactat 300  
gtttctcttt ntataataag taatatctac ttattacaaa gtatttctta aaaacatctt 360  
tttttaaaca ttatgtttta agttatcttc tcttaatatg 400

<210> 12196  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12196

tctactacca cacccaacan atctagatct cataaccttg cactcanaag aagaagcaga 60  
agtcgtgttg tgactggttag tggtatcttg ttcaacaaca atgtgagtct tgagagaaga 120  
accagatcaa cacctatctt taagcctagc agaactagta cttcctgatg ctgagttaat 180  
ggttgagatc cttggagtgt tggtgtctct gaagctcttg gagttgagct tttggatgat 240  
ttggaagaga gatagggaaa agaccacana tatgtttctc ttcttgggac taanacctcc 300  
aatgaccaaa tcgttgtcat tggtgatcaa agagtgggtt cttcgcagcg tgggtggtgga 360  
tttgctacac ttgagaacaa tattatcgaa ggttggtgat 400

<210> 12197  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 12197

agctttgggt ctaatagctc caatcacgtc tattccccat atagagaacg accaaggcgc 60  
tgccaagaca ttcaaaggta caggtgaagc attgacatta ttgacgaagg cctgacactt 120



gtggcacttt ctcacatgga tgcaacaatc gttttccata gtgagccagt aataccctgc 180  
 tatcaaaatc ttctggggcca tggcatttcc attggcatgt gttacaaagg atccctcacg 240  
 tacttccact agcatctgct tagcctccct ggcattccaca catogaagca aaaccatata 300  
 atgggtcctc tatgatggga aaaccaagtg cttgggtcaa gttggatctt ctaggatgga 360  
 atttgtgcac caggagcaac aaccc 385

<210> 12198  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<400> 12198

gtgtctagac ccttgacccc ccctgggttc tctcattttt ttttaatccc ccgttttatt 60  
 tagccctgcc ttacctggcc tttctttgaa atgggctgct cccttttata cagccgtcct 120  
 tctaaattct gcttttttct tctcctgctg cattctcctt tttttttct agtccccctt 180  
 ctcttctttc aattttaccc ttctttacta cccttggtta tatcttctg ctttaacttt 240  
 ccttcccttt tc 252

<210> 12199  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 12199

agtttgagat gaggaagtgt tgaagggtga aacttctgct ttttattgtt gaccacagag 60  
 cggtacctgg agatatgtcg cggagggtcac cgagacctg cggacgtcat gtggggtgct 120  
 attgccc aaa accaagcttg accaatcccg acccaaccg ggcatagtcg gtcagtgaga 180  
 acctgtgatg tacctaagca ggcgagctcc tggcagtcaa cagataaaag gaaaacaaga 240  
 ccacaaagta aggaggcttg tgggtggctgg ccagctgtga atttgtgta atatgtggat 300  
 ggtggcctct ggtaatcgat tactaagggt gggtaatcga ttacaaggct tataaatgaa 360  
 gacaggaggc taagatggtc tctggtaatc ga 392

<210> 12200  
 <211> 287

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12200

tattatacga gctagagcac atatccttaa tgatcttgat tgcatacaata aagggctcta 60  
acatgaggct accncacaa tcaacatctt aacttggtgct attatgtgag gacactccac 120  
catagaanat gtgaaatagc ctttggtggg agaagccatg atatggacaa cttctgatcc 180  
tttcttataa tctctcttac gcttcaagta gactctcttg ctctttctgc acaaaattcc 240  
caatgtccct tatgtactgg tttatcttag aagagaaata tttcctt 287

<210> 12201  
<211> 332  
<212> DNA  
<213> Glycine max

<400> 12201  
tatggtagct tctgggaatg ataactttgg tacagagtcg cgatctgtat tagatttttg 60  
tgatggcgtg tgcataccat attattccac attatgagta atggactttt ttttaattgtc 120  
ctgataaatc atcaaccatg tagcattgag tcgtaggtga ggtccactat acgaacgaag 180  
tggggaatta tggcccaact ccaagtgact gaaaagatgg tgtgcatgat attaattgtc 240  
gtggctcgtc ttctggatca ggcgagggtc ctactacttc tactagcgat gacttctggg 300  
attgattgga attatccgat gactctctag at 332

<210> 12202  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 12202  
ctcgcgcagg cgagcaaggt tgcttcctcc agaagcaaca gccttctata tgagtcttct 60  
ggaggggcca agtggggcta ggtactatctt gcacccacat ttctactatg tacaccccc 120  
taccttactc ttggtgattc tttattcgta tagctacgga aacttacgac attctgaacg 180  
atacttggtg tctttccgta atgctacgga accttggtgaa ttacataatc acccgttttt 240  
tgacttactg aatgttacta aacctcacta attgtgcaac gatgcttcca tttgatttcc 300

gggtgtgtcac ggaaccttac ggattgtgca tcaatattct cttttgttgt ccggcacgtg 360  
ccggaatttc acaaatggcc tagtgatggg tgcaagcacc ttacaatgac taaacaaaag 420  
tcgcatgtca 430

<210> 12203  
<211> 462  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12203

cgtacnncca ccattttcat agtagaacat tggtaatgtg tttactatca ttgtaataat 60  
ctctctctat gttattgagg gtgctacttg agctgccaaa tccttcacc tctgggcata 120  
ttccttgaag gattcatgct cttttttgca catgttctat agttgcatct tatctgaagc 180  
catatcagaa ttgtactgat actgcttaac gaacacaacc attaggctct tccaagaatg 240  
gactcaggaa gggtcctaag ttagtatacc aggtgatagt tgtcttagta agactttctt 300  
angagaaatg tattagcagt ttctcatctt ttgtgatgc ccncatcttc cgacaatata 360  
tcttttagatg gttcttggag caagtagtcc cttgtactt gtcaaagtcc gacaccttga 420  
acttgngaat gaccatgttc gggactaag aacaactctt ct 462

<210> 12204  
<211> 381  
<212> DNA  
<213> Glycine max  
  
<400> 12204

tcaagtttga caggtttgaa atatatctct gatgtcttat atgtgcctga cattgatcaa 60  
aatctactta gtattgctca gcttgtagag aaaggcttca aagttatatt tgaagaaaat 120  
tggtgcttga tcaaagatgc aataggaaaa gacgtattta gggtaaaaat gagggctaaa 180  
agctatgctt taaatctaag ggaggagaag caaatagctt tttcaagcat gaccaccaat 240  
gttgaactat ggcacaaaag gctcggacac ttccatcttg ctagactttt atgcatgcaa 300  
aaacatgcct tgggtgaaagg tgtgtcaatc cttgaagaca agttagccga ttgcgtggct 360  
tgccaatatg gtgagctagt c 381

<210> 12205  
 <211> 210  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12205

atatgacaaa acacatcgat gtgactctat actctctcat atatgtgatt gaatctgata 60  
 ctgtgaagag ctancatgtc attacagaag ataaccgggc tgatatgttc atacacttca 120  
 tctctagtgt caagatcaag ctctgcttgg actagataat acatcataat gcctgaggca 180  
 catgagagaa ttgcaaccct gattcacaag 210

<210> 12206  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12206

tcaagtttga tattatgaaa ngncgaaggg tgaaacttgc tgcttttatt gttgaccaca 60  
 gaccggtacc tggagatatg tcacgggggt caggatacct tgaggacgtc aagtgggggtg 120  
 ctattgcccc aaaccaaact tgacctatcc cgaccagcc cgggcatagt cggttagtga 180  
 gaacctgtga tgtacctaaag catgcgagct cctggcagtc aacagataaa aggaaaacaa 240  
 gaccacaaac caaggatgct tgtggtggct ggccacctgt gaatttaagt aatatgtgga 300  
 ttgcggcctc tggtaatcga ttaccaatgg tgggtaatcg attactatgc ttaagattga 360  
 ggacacgaag ctaagatggt ctctgggaat c 391

<210> 12207  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12207

tatttgactt tcctatgcta tctctacata cataanacaa cccaccatc ccagtgttgc 60  
 anaatcatat tcatatatca atggggcatt tcaccgagca cttggtgggc gcacgtttgg 120  
 acataaattg caagagaatg ggggcaatgt ggcatgcccc attgcttcag aatacaacat 180



aattattcag atgatacctgg tctgtttact gtgtcgccac ttgaggactt ccttngtgnt 540  
 gatangactt atggaaccct actagccgcn 570

<210> 12210  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 12210

agctttaaca ttcaacttcg agcgtctcga tatattacag gactcaatca aacatccgag 60  
 aaaaaagtta ttgtcgtttg aatttgctca gaggttcaac attcaatttc gagcgtctcg 120  
 ttatattaca ggactcaatc agccatccga gtaaaaagtt attgtcgttt gaattggctg 180  
 agagcttcaa cattcaattt cgagcgtctc gatatgttac gggactcaaa cagacatccg 240  
 agtaaaaatt tattgtcggg tgaattgggt cagagcatca acattcaatt tcgagcgtct 300  
 cgatatatga cgggactcaa tcagacattc gagtaaaaag ttattgtcgt ttgaat 356

<210> 12211  
 <211> 539  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12211

ctaagcttct atccaggcac attcttggtg gtgaagctcc ttcttccatg gtttattccc 60  
 ttgtggatgg tgcttccct ctcctctnnt cctttgcctt ccgctgcac tccatgggtg 120  
 aaaatcacca ttaaaagacc tcattgaagc tcanagatcc agcctccata gaagctccac 180  
 aagcaagctt ccatcatacc tccatgtggg atgaggatga aattattata gatacctccc 240  
 tctgggatga ggaagagatt ntggatacct ccatttatga tgaggaagga gtgggatgcc 300  
 attgcatgaa atatgaactc ctgaccttt tgaagaatnt gagatccacc ttggttntgg 360  
 gaaccataga attgagtctt gtaattccag gaaccactaa gttgtgtctg ttatatttat 420  
 ttggatgcgt tgaggatttg tcatttatnt aaatatnta tttattcata attccatgaa 480  
 tggggattgt ntaatatgat ttactgcct atatatacat aataatctat ntaaatcat 539

<210> 12212

<211> 476  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12212

gacactatga tactcagctt gagccattca nacaacaata acgttntact cggatgtctg 60  
 attgtgttcc gtaacatata gagacgctcg aaattgaatg ttgaagctct gagccaattc 120  
 aaacgacaat aacttttttc tccgatgtct gattgagtcc cgtaatatat cgagacgctc 180  
 gaaattatat gttgaacttc tgagctaatt caaacgacaa taactctttt ctcggatgtc 240  
 tgattgagtc ccgtaacata tcgagacgct cgaaattgaa tgttgaatct ctgagcaaat 300  
 tcaaacgaca ataacttttt actcggatgt ctgattgagc ccataacat atcgagacgc 360  
 tcgaaattga atgttgaacc tctatgccaa ttcaaacgac aataacattn tactcggatg 420  
 tatgatngag tcccgtaaca tatcgagacg ctcganattg aatgttgaag ctctga 476

<210> 12213  
 <211> 403  
 DNA

<400>

tttttttatt tcacgtatgc aacta... cattca... 60  
 attggaggtc atagttgaca gggtyngtc tar 120  
 aaaagag... aagg... aaga 180  
 gatacgtgag gataattttt aaaggaattt ccaagccaag aggac... rat... 240  
 caaagaagta atgcatgaaa gaagacc... racc... 300  
 ggataaatag atagagcata atatcat... 360  
 tcataaggac catcaaattc acatgataat ctaacacaat aaa 403

<210> 12214  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12214

atataagacg atacttactt anacaccgtc cttganagtt attcttttaa gacagtacct 60  
acgtaagcat ncgccttgaa ataaagatta attttaacta ttgatanttt ttctgaacga 120  
tatttcatca gagaaaatat gaataattaa caataatatt tattagcatg attgtaatta 180  
atattaatat taaaatttat ttaaaaaata aatattaaaa tgatatatta aataaaaaata 240  
agaggttgac aaattagaaa ttccagagtc aatttcatag aanaaaaaag ttatcaaagt 300  
tcttttatta taaagtacct cataaattaa ataattattg tttcacaata atttagagga 360  
ccaattaaca ctttgacagc ctccaagata ttatctcaa cagcagacac aaagagaag 419

<210> 12215  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 12215

ggcgactccg agctcggggc cgggatactt aagtcacgcg ccgcatttta tcttgtcttc 60  
gtccgagcgg aataaatgct gtcaaataaa caatatcgca gacttcctac catatggtct 120  
ggtgatagat atatatatat ggcccgagag agacagagag atatataaat ctccagaccc 180  
tctctcccag attctagatt gagcaactaa atatcaatta tatcagaaag ctacttgaga 240  
ttccaagttc caactcaagt ttaaaatgtg gtgaacgga aaagtgggta aaataattgt 300  
accaagtgtt ttatattaca ttacatataa cgtgtcaacc tataagacgt gagaaaaagg 360  
gtgcagatgt tttggtatgg atgtgattat attatatagg gggcaaatac agaccatatg 420  
tatatcaaaa 430

<210> 12216  
<211> 586  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12216

tgccttgttg ccttttgatg ccgttgcaan agcacacaac nagactcagc ttcacagtca 60  
agcatgagcg cttcgtcant accggtctcc atcagacgta ctctgtagga ggtatcggcg 120  
cggagcatgg gtggtattga caccacacct caatactgag acgctcnctc ttatagcagg 180  
actcagtcac acattcgccg taacagttag agtctttacg aatcgctcag agattcttca 240



tttcctttcc agcgggtcgc gatatcacag cgcttcatca gacatccgtg taagaagtat 300  
 tgccatttga attggcttaa agcttcaaca ttcaattccg agcgtctcgt tatatgacgg 360  
 gactcaatca gacattccga gcaaaagtca ttgtcggttg gattggctca gagcttcaac 420  
 attcatntg agccgctcga tatatacagg actcctcaac atgcgggtaa aacgtatctg 480  
 tcgctcgact tggttcagag ctacacaatc aatcttgagc gtgttgggtc cttacacgac 540  
 tcaagccaca ttengagaaa agttattggg tctggatggc tccacg 586

<210> 12217  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12217

tgaagctcac tacaagcett aagtgaacaa ccatgatatt tccatatact taaggaattn 60  
 tggagctttg gaattgttat gcgaataagt gtggnggggtt tttgtttcat tggacaactt 120  
 gatttgttgg ctatgcttca tgatgtattn tnggccatac ttgatgtaca ttgtatattg 180  
 gttaaagtgt ggacatgctg aatgaaatgt tgtttctcac aggctataga gtaaaaaata 240  
 aaatacaaaa ataatcgaaa aacaatatc gaagaaagat taagaacagc actaaagttg 300  
 agtgaataag atcttatatg gcacaagaat gatgaaactc ttggctctac tcttcatgtg 360  
 taattgatat ctgtacttct tgttatntc ttattacttt cttaatatgc acttattgcc 420  
 ctttgctcct ctatt 435

<210> 12218  
 <211> 406  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12218

agtttggatt catcaaaata aactttcatc cggcgcttta gtcttctcag tctttcctcc 60  
 tacaaaattt ttacaaagtt gctgctcaat gaattcattt ttttcttgt tttcctcact 120  
 gctctctgtc ctcaacaaat tcatgacaag aaaataaatg aagaaaaaaa actattaaac 180  
 catttatgat ggagaacacc agacagtttg gaaacaaatt atgaatgcat tttcaacatt 240

gtttctgcaa ttattctcag aaaacaaaac aacatttcca acaacatgaa actctagtta 300  
 taatcacatt nttcaattac cttcaaaaac tattgccagt tagtttccaa aagttnttca 360  
 gttattctca aaaactatat tgaaatatat tntcacaggt cattga 406

<210> 12219  
 <211> 326  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12219

ctcgncagg cgagcaaggg tgcttctcc agaagaaact atcttctgga ggatatcttt 60  
 ggagggccca agtggacctg gttgctatct acaccncct tnttactaaa tgcaccncct 120  
 tatatatnt tctgtaattc tttttccgta acgttacgaa actttacgaa tttcgtaacg 180  
 atacttattt tcctttccgc aagggttacga atccttacgg atttatgtat ttactctttt 240  
 tggctttcaa agaagttacg gaaactcag gattgcgcan aaacacctct tttcgattnt 300  
 cggcacatta cggatattca cggatt 326

<210> 12220  
 <211> 361  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12220

atactcgccc attatctcag ntgtctgttg tttattgcat tcttacggaa tctcttaccg 60  
 aaaagacaga acaatggttag aagaagttcg tacaacagga ttgttntact gcaatgatct 120  
 ggttgattca atgcagatga gaggagaaga cnattaatcg gacatagaaa catatttgag 180  
 aaattgtaga gtatgtctgg gtgcatagct tggtaatgaa nacagatggg attataactt 240  
 tctaaccgaa tgagaaccaa tacaacagaa tatgatatan atcggccttt taacaagtat 300  
 taattcttaa ttctaadata tattntaaat aacaagtcag acatatctat gataaactgt 360  
 a 361

<210> 12221  
 <211> 383

<212> DNA  
<213> Glycine max

<400> 12221

agttttgatg taacatttgg agaggttaat gaaacaacga gatgatgogc tccatgagag 60  
gttggatcaa atggagaata gagaccatat gaattgctca agagcttcca ttgttcaatt 120  
tcgagcgtct agatatataa tgcgcctcaa tcggacctcc gagttaaaag ttatgaccat 180  
ttgaaatgct caagagcttc cattgttcaa tttcgagcgt cacgatatat tatgcacctg 240  
aatcggacct gcgagtgaca acttatgacc atttgaattg ctcaagagct tccattgttc 300  
aattttgagc gtcacgatat attatgcacc tgaatcggac ctgcgagtga caacttatga 360  
ccattttgaa ttgctcaaga gct 383

<210> 12222  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 12222

tagaaacccat aatgacaatt ctcacatttc aaattaaaac caaattacgg catggtgagc 60  
accatcatga gtttcagaac ttaataccaa atatatgcac cacattcaca taatgggcac 120  
tgccatggat gttgtgtttg tcctcttctc tgtgtaaagc gaccacatga tcaagcgaac 180  
atcattcgtc accctctcaa gcacgtacc agatcaagat cgagatctat aaccaaactt 240  
ataatgcaca atatcgagat ttgtgtggtt cgcggctggt tatggtgggt gacgttctca 300  
gaggttgatg gtggattgat atatcggtt catgtgcaca ttgtgtattg tagtgggtaa 360  
cacacggtag agtcactact tgatcacatg acatcggtga t 401

<210> 12223  
<211> 203  
<212> DNA  
<213> Glycine max

<400> 12223

gctctgatac cacttgttgg acaagtggcc atagatatct taagaaggag gggggggggg 60  
gagggctctat acttctaact cccacgccct atcaacgcgc ataatatatc tagacgctca 120  
atattttaca atggaagcta tttggctata cacatgctca taacctttca ctcacaggtg 180

cgaataaggc gcatcaatat atc

203

<210> 12224  
<211> 376  
<212> DNA  
<213> Glycine max

<400> 12224

agttttaacc tcacgtccc tcacagtctt tagatttggg agccaatcca atccttgtgt 60  
tcggactctc agccacttat gatagctgcc gatgatccca ttactgcttc ccctaagctc 120  
tctgtccttt cttcacgccg catcccatgc cttgcgaact ccttggagta ccctcgcgtt 180  
gtggtcacta aaaccccggtg cgatgaaagg cgtgatgctt tcgtctaatt ggcgtcctct 240  
catggggtag ccaagctgtc ttatggcgag aacgggatta taattaatac aaccccttgt 300  
tcccatcaaa ggaacatttg gacatccttc gcatgaagat agaattctga ttcttccttc 360  
cttctagcga gggaac 376

<210> 12225  
<211> 398  
<212> DNA  
<213> Glycine max

<400> 12225

catttcttgg ttggtgggtt ggtttatgct aaatgtggtg ttcgtcattg gaagtgcgat 60  
agacaggctg tgtgggttat ttagggatgg cctttgtgga tgactgagtg gtgggtaatt 120  
agaaagggtg atattgggtg agtaatgatg ttgctgagct ggtgggggat tttccatgta 180  
tgaacgacag tcacaacatg ggtttctcct tcattctcac cctcttcatt tgccccagtt 240  
ttctcattcg tccaagcagg atgattaaat ttgcctcttt tcagaccac ttggatcctt 300  
tcgctggcga agaccaaatt cgtaaaactt acagggtgtg aaccaccat ttctcatagc 360  
agaacactat taatatgtct actatcattg ctatcatc 398

<210> 12226  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 12226

agttttcttg agagaacttc cttgagaagc ttctttgaga aaacttcctt gagaagctag 60  
agcttagcta cacacacccc tctcataact aagctcacct ccttgagaag cttccttaag 120  
aagattccta aagaagctag agcttagcta cacatacctc tctaatagct aagctcacct 180  
ccttgagatg agaagctaga acttagctac acaccccccta taatagctaa gctcaccccc 240  
atgacaaaaa acatgaaaat acaaaaaaaaaa aagtccttac tacaaagact actcaaaatg 300  
ccctgaaata caaggctaaa accctatact actagaatgg ccaaaataca aggcccaaac 360  
gaaggaaaaa cttattctaa tatttacaaa gataagc 397

<210> 12227  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12227

tatatggact atgacagagt actagctaac tacatgtact taatttgac ttctcattag 60  
cgacacttaa ttgcttgga gttgatgaag cgacggcttt cgcccagctt cggatctttg 120  
ctttgatctt cactgcagcc accttagcta attcattatg ctcagccaca aggtacagat 180  
gaggttggtg tgggtcacac tcttccaaag tgatgcaaca ttctttgtaa tccttgctg 240  
ccattgccat agcctcaata gacatgtttc ctttccctaat atagggatat tgaggatcga 300  
tatatgatta atgacgcana ctaagtgtga ctgtgaattg taattgacgt agtaatagcc 360  
gcatagaatc atttgatat ataccata 388

<210> 12228  
<211> 344  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12228

agcttgagtt gtacaagcca aaagtgcag tgattaatac ttgtaacttg ttgaagttaa 60  
tgaaacttgg tggttagcca agaactggac atatgggggg atgatgcaat cctacccccca 120  
agggcattgg atagaagact ccaagaagat tgggtcagaa ctactgaaga aggcctatg 180  
gttaggtttt tggcccatgg actaagtatg agctcactta tctttgtaca tattagatta 240

gggtttcatt attttttggc cttgtattta gggctccata gtgtagggag ggtaccctag 300  
 taaagtagga tctttcagcc tatgtattnt agggcacata gact 344

<210> 12229  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12229

agccatgttc tcagcatgaa gattaacagc cgaatgctca acatcagaat attcagaatc 60  
 actagcaaca aaatactcag aatgctcaaa atgctcanaa tgcgtagaat gatcaggatg 120  
 cacactatgc ctaactaatc tatgaaaggg tctatctatt tcaggatcaa agggttgttaa 180  
 gtcacgtgga ttgcccctag tcatgcacta tatgcagcaa ataatgtgtt ctcaaacaag 240  
 cacctgacaa gggggtaaaa ctacaactat agtcaaacga tatccaaagg agctgagatt 300  
 ntgtcagcaa caccctagaa tcatgaacag atagcacana agatntcaaa caaaaattca 360  
 aagtctaact atgaanacta cctaagcana gttatgaaaa taggacaata atact 415

<210> 12230  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 12230

agcttgttgt atttgccatg tttggatgag ttagacatac ccattctgtt ttacgggtttt 60  
 tgtgatgatg tttgtgatgt ttatatgctg aaattgctga tggaaatctg ttagagatga 120  
 agggtagaat taaccaaggg ttagaaagtg agaatgtgat gttatgagtg gaaaaagagt 180  
 gagactttga gagttggaag gctaagtctg aattctgtgg taaatggagg ttagagtgag 240  
 ttaatactag cttgaaatgt catttagaac atgtgagaaa ggttacgctg agctagagag 300  
 aataacaaat gaccaaagtg aacaaagagc cattgctagg gcaaatttgg gtgttg 356

<210> 12231  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12231

ctcactcgga gggccgattc angcgcataa tatatcgaga cgctcganat tgaacaacgg 60  
 aagctatcga gaaattcana tggtaatac ttcgaactcg gaggtcctat taagggtgat 120  
 aatatatcta gacgtcaaaa attgtacaat ggaagctctc tggctataca aatgggtcata 180  
 acttttctact cgaagggtccg attaaggcgc ataatatatc gagacgctca aaattgaaca 240  
 atggaagctc ttgagcaatt caaatgggtca taacttgtca ctcgagggtc cgattcagct 300  
 gcataatata tcgagacgct cgaaattgaa caatggaagc tcttgagcaa ttcanaatgg 360  
 cataacttgt cactcgaagg tccgattcag gcgcataata tatcgagaca c 411

<210> 12232  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12232

agtctttag caaattcaaa cgacaataac tttttactcg ggtgtccgat tgagttcagt 60  
 aatatatcga gacacttgaa atagaaaacg aaaacttgta gcaagtgcac accacaatca 120  
 attntaactc gtcgcgaaat atgttgagat gtcgaaatt gaaaaagaaa tttcatagca 180  
 aattcaaacg acaataactt ttacacgga tgttcgattg agtcccgtaa tatatcgaga 240  
 tgctccaaat tgaaaacgga tgctcaaata atattcagac gacaataact ttctacacgg 300  
 atgtctgatt gagtcccgta atatatcgag acgct 335

<210> 12233  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12233

acacgagcca ggttctgatt aaattcatga actgctccat atatgacaca atctcaaact 60  
 accactttta atttcttacc ctaccattgt ttagagaaga tttccacaa angcatcgca 120  
 cagaatccat gaggtgcacc aagcaggact tcttgtaatg ctgcaatatg accctgcac 180  
 atttatgaga ttatgtcaaa atagcaccta gcttatgtca cttactgtca atctactgcc 240

aattatgtca gcacagtcce taacatatgt cacttactgt cgaattagta cttcagaatt 300  
aataacattg acgaatctat ccaactgcta ttgcatgcat gccacatact atataat 357

<210> 12234  
<211> 382  
<212> DNA  
<213> Glycine max

<400> 12234  
agcttctact ttgtttcaac tgagaaaagg acgtcaatcg tcatttaccg accatgatcc 60  
gcttatttct tcttctctct tctgtctaatt gtcgtaaaact aagaataatg gagtataata 120  
tacaccacag aaaaaatgga gtatcatatt gataaaaagt aaaacatcgg acggtgatct 180  
tgatgcagaa gtctacaatt gataatgaca ggcaaattta tatatataag aaaaggctta 240  
tcatatgaaa ttatgcacac ttatgagcta tgaggccttt taatctctaa atgcacacta 300  
gcgacactaa cgaaagtagt ggtactattg ctaacatc cgaacatctt ggaaacaatc 360  
ggcgattggg taaataaaaa at 382

<210> 12235  
<211> 473  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12235

gcttgctage gttatgcaac agaaccacat gttagccatt gtatatgtac caagaagaat 60  
taaactctage cacggaccac gagcacaag tggcgtaga gtatgcctga gtgtacgcag 120  
aanaggaggc tagaggaagg gtgatcgact cgttacatca agaggcaaca atgtggatgg 180  
accgatttgc tcttactttg aacggnggtc aagaacttct ctgattgcta gccaaggcca 240  
aagcaatggc ggacacctac tccgcccccg aggagatcca cggacttctc agctattgtc 300  
agcatatgat agacttaatg gccatataa ttagaaaccg ctaggaagtt ngatttgtca 360  
ctcagatctt gactagttat aactntctga ataaaatgag tntatcccat gttntactc 420  
caaagatcag tgcgaatcan atcactcccg cattntatct ctagcatgca ttc 473

<210> 12236



<211> 358  
 <212> DNA  
 <213> Glycine max

<400> 12236

tcaagtttta gatgaggaag tgttgaaggg tgaaacttcc tgcttttatt gatgaccaca 60  
 gagtgggtact tggagatatg tcgcggggct caggagacct tggggacgtc aagtgggggtg 120  
 ctattgcca aaaccaagct tgaccaatcc cgacccaacc cgggcatagt cggtcagtga 180  
 gaacctgtga tgtacctaaa caggcgagct cctggcagtc aacagataaa aggaacaaag 240  
 accacaaagc aaggaggctt gtggtggctg gccagctgtg aaacttgatt gatatgtgag 300  
 atatggtctc tggtaatcga ttaccaatgg tgggtaatcg attaaaggct taaaaatg 358

<210> 12237  
 <211> 569  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12237

ccgccttgat gtttgatgca ntgcaagaca cnaagctagg cctcgatcct catgtagacg 60  
 gggatcgect tgcggactgt tgcatagggt cgtcacggca tgccaatgct aggactacac 120  
 tatcagtaca cacactagtg cgtgatctca ccacgagcat gcaatgtatc atccatggaa 180  
 gaagcagtga acatcagata gaccgactcg tgcgtattaa ggtactgaca tcaactgttg 240  
 attatgaata ctcaacaagg agtgtcagcc cgccattaca gaggaaccct aacacatatg 300  
 agattaagag tggataagaa ctgctgtctt acacagcaat ggggatccgt tctgctctac 360  
 acaacgtctg acagtcactc gtgagctcac tagtctctct ctaattacac aacctatcgc 420  
 tgtntgaaga gctgaacgct tgctgectca tagctgtgaa ctaagatagc actagtgcgt 480  
 gcttggagtc tatgcgaata tcacttacac taatctacat agacagcatt cgattgttct 540  
 aaatcggatg cgcaatagct caccctcgc 569

<210> 12238  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12238

agctttttgt ttgcttgta aaagccatga cgagtgtggc acaagcagtg accaaaaatg 60  
caaccactct gagggacaaa agaaccaat ccttctttgg ctaatttgtc tcatgaggaa 120  
ccactgatgc attattcata ccaccaagct ccactttctc tccaccattt tatgaggcca 180  
ttgtgcaatt aataacaaac acttaattaa ttgccaaagt gagaaaatga aggtggtgat 240  
gatggtgcag attattatgg agaggacaat gggttattat atagataggg ataccagtga 300  
aatggtcana ccatatcatt tggtaagtct aagaagccaa gtgaggattc tttctc 356

<210> 12239

<211> 496

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12239

cactcagctt cgtaattca ccgctcgata ataccggtct catccggatt ttcgtgtata 60  
aagntattgt catttcaatg tgctcagagc ttctagtctn caatttgagc gtctcgatat 120  
attaccgat tcaatcggac atccgagtaa aaagttattg tcgtttgaat ntgatacgag 180  
cttccatttt caatttggat catctctcga taaatcacga cactctgctg ggcatccgag 240  
taaaaagtta ttggcgtttg actcttctaa gagtttccat tntcaatntg gagcgtctcc 300  
atatattacg ggactcaacc agacatccgt gtataatgtt attggcatta caattctctc 360  
agagcttcta gtctcaattt ggagcgtctc gatatattac ccgattcaat cggacatccg 420  
agtaanaagt tattgtcgtt tgaatctcta tgagcttccg tntcaatttc gagcgtctcg 480  
atatattaca ggactc 496

<210> 12240

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12240

caacaacaca tticccaatg ctaaagtcac ctaacagtac acacacaagt gggatgatcag 60  
accaagagca tgcaatcttt aagcattgaa agaagcattg aacataagac acacaatcaa 120

ttagatatta aagtaattac atcaactgtt ctttaaaaat cctcaacaag ggtgtctagc 180  
 cagccattac agaaaaaccc taacaataat gagattaaga gtagagaata actactcctt 240  
 acacaagaag gtggatccct cctcctcttc tcagcatctc aaaatcactc tgcaactcac 300  
 taatctctct ctaattacaa aacctatagc tctctgcaca agctgctcct cttgctagct 360  
 ncagagctct ttgtccataa tagacactat ggtgtgctct tgaattctat g 411

<210> 12241  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12241

agtcttaagg atttcccat ttgacatcaa ctgtgaatga agaacaata acttcagcct 60  
 aatgattaca aagatgaagt cagtaacttc caattcatta ctaatttaga atcactatct 120  
 atattttcag gaaatggata aaagaagaat aatggcataa ccattgtcct gagattaatg 180  
 aattttacca aacagaatca aatgctggta gaaagtcaac ttgatgagtt acaagtaaaa 240  
 cagttttctc ttttaagacca tccatgatgt attcctgccca agtttcanaa ccatgttgga 300  
 gtaaagaatg acacataagc acaattatag tatgtgagga aaggaagatg ccattacatt 360  
 aaa 363

<210> 12242  
 <211> 328  
 <212> DNA  
 <213> Glycine max

<400> 12242

ttatcttgtc taatactact gcaccagga tgagtgagtt ctgcgaagcc tttctcaaag 60  
 ctctaagcc aggttcaaaa aatgaaaatt gcatcatcct cactgtccct acaaaattgg 120  
 catgacgtgt catcaacctg cacttgcttc cactgcaaac tctgtcttgt gggaagtcta 180  
 tgtctattaa tctccgccaa agaaatctac ttttcttgga acctttatgc tccataatct 240  
 gacaaaacat tccttctggg ttattgctgt tgctcctccc attattacct ctgtttttat 300  
 cagccaaact aagtatatta tatatata 328

<210> 12243  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<400> 12243

tacaataaca ttctgattct agtattaatc actgtttata ggaatattat ctttgattta 60  
 gtggaaacaa aatatacctct atttatgtat aattaatgta attatcctat atacgctcgc 120  
 atcctctgtg tactctgaca cacggtttta gtctattgac cctctatatt ctctctcatt 180  
 ctacagtata tactacgtat tatgcaatcg atagatgaca aaaataatag agaacgaaca 240  
 tcacactctg tatgatatacc catgtacaat gcttctgttt ctgagctaca atgcacaaag 300  
 aaacaatgct cgagtgtctc atattaatgc atcccatgtg attccaattt ccaaaacttc 360  
 tgaatcttca tgtactcttt attccaaaat gccatcagac attctacaag aactattctg 420  
 ttttccaaga t 431

<210> 12244  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12244

tcaagtttga tattatgaag ngcagaaggg tgaaacttcc tgcttttatt cgttgaccac 60  
 agagtgggtac ctggagatat gtcgcggggg tcaggagacc ttggggacgt caggtgggtg 120  
 gctattgccc aaaaccaaac ttgaccaatc ccgaqccaac ccgggcataa tcagtcagtg 180  
 agaacctgtg atgtacctaa acaggcgagc tcctggcagt cgacagataa aaggagcaaa 240  
 gaccgcctat caaggatgct cgtgcggtgg ctggccatct gtgaatcttg tgtgatatat 300  
 gggctatggc ctct 314

<210> 12245  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12245

tgatgataac aatgatgaca tcagaagatg atgaacaaaa agctcaagtg aatcanagaa 60

catctcacga gaatcaagat caagatcaag attcaagaat caagaattca agactcaaga 120  
agacagcctt cagaaaagta tcaagattca agattcgaga tctcaagaat caaagatcaa 180  
gattaagaat caagaatcaa gactcaagat ctcaagaatc aagatcaaga tgcacgaatc 240  
aagattcgag aatgaagaat agactcaatc aatataagta ttaaaaaggt tntttcaaac 300  
gttgaatagc acacgagttt ttgacagaat ctttaccaaa gagctgttac tctctggtaa 360  
tcgattacca tattggtgta atcgattacc agtagc 396

<210> 12246  
<211> 396  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12246

tcaagtttgt ggatagcatc cacagcattg ttttcaccca aggaaatggt ggtcctgaca 60  
ccatcaagaa gatcaccacc attgaaggtc agttaattaa tgttaccttt aatttttttt 120  
at ttgtgaaga ataaaagaat aaaaaacatg taccaaaatt tacaccaact catgtactta 180  
tatattgttc agctaattga gttagatgct ttgattaata ttatcattaa ttaattcaat 240  
acaagatatt ttcttgaact tatatataaa caaaaataac tattttcaca cagagttata 300  
attaaataaa tgatattgta ataataatat cattaaatag gaatgaagtt acttanatgt 360  
acttatattt atatttgagt gttagataga gtaact 396

<210> 12247  
<211> 311  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12247

aaacaaatcc atgtatggtt tanagcaatc cnccacgcaa tggaatagga gacttgatga 60  
at ttatggct cacataaagt ttcataagaag tcaactatgat aattgtgtct acttcaaatt 120  
tcctttctaaa gtcgagtttg tgatattgct atttatgtt gatgatattt tgatagcaag 180  
taatagcaag agtaaggctg agaaattgaa atctgagctg agcacggaat ttgaaatgaa 240  
ggatttggga gcagctaaga ggatattgng aatagaaatc aaacgggata gaacaaagaa 300

attgtggatc t

311

<210> 12248  
<211> 391  
<212> DNA  
<213> Glycine max

<400> 12248

agtttacggc gggagaaata aaagaaagga agcaaaaaag ctaagcaaaa ccaccgaaaa 60  
gcaacatcgc cacctatatg tgcgtgtctc acaacaagtc taagtgtgtc tctgagagag 120  
agagacatct ttatcatcat ttttaaacac accaacaaca catgttgacac caccaaccat 180  
tctctctctc tctctctctg ggttttcttg tttttattgg gtctctcaat gagagattgt 240  
aatggaaaag gatcatcaaa gtctgtccaa ggaacatagt gactcttcag tgtgttgctg 300  
gcttatacga gtagtactta ttcacatctt aactccttca attctcttct ccaatgatta 360  
actccttctt caattctctt ctccaatgat t 391

<210> 12249  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12249

aatgaccttt attctttgaa gagtcgtggg aacccttga ttaccattta taaaattgag 60  
gacagcaatg caataaaatg tacctttatt tatattctca tgttgattac tctaccaaa 120  
nagtatgaca aacctaaggt gtcccatatg agcacctacg tctgtattga aacaaaacat 180  
acgaacaaac ctacctaatz agtccctatz tacacaaatc atgaagatzg tgagtgcatz 240  
agtgattgta cacaagacgg ttgcaccact caacacattc atcataccac ctan' yg 300  
caccaacata gcacaaggat ctaagatzct acgagccaga ccctca la acaactctca 360  
tacttgatga ataacat 377

<210> 12250  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 12250

agcttctcat agatgtaatg tgctaaaaga gagggaaaag gaagaaacaa aggtaacatc 60  
 tcttaccaag gagtctagct ccgttggtta aattaggtgt tgagtgtact aaattttttg 120  
 atatcgtggt caatatttac cgatattaag aaagtagcat ctcaagtaaa ccaaatagaa 180  
 gaaacagaaa aagagataat attaattata ggtgactttt gtgtcttaaa gatgtttaat 240  
 ttgtgttatg ttaatagcgt gtagtagcta tgcaaagagt gtgtttcttg agtgccctgtg 300  
 tgttttttcc ctactatgat ccttcttacg ttttgagtgg ctttcagcca gtngtgaata 360  
 aaactatgca acttttagtag tatctactaa atatagt 397

<210> 12251  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12251

aacttccttc agacaaggct cgatatatta agttaactta ttctanaaan anaatgccat 60  
 atgtttgctt atacttattc aaggcacaag gtcacaatc tttttntgtc tagaattgga 120  
 tgtgtgtgtg aaggaagcag ttgctcatta cgtcaagtca tcttcaatta gtttcgggaa 180  
 tagaacagaa caactatctt tattagaaaa agattattga acaaatagtt ataatgtgat 240  
 taaattatta tttttataaa gcgcgtgatt ntgaaatcaa actttaacta accgcagctn 300  
 ttactctgta tgactctccg tcctctttca tactcttgat tacatacctc tntgaatgat 360  
 tccaatgtgt aataagtagt caacaca 387

<210> 12252  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12252

agcttaaagg atgtgaacaa attagcatgg gcagaaatgt ctccgcattg attggtaaatt 60  
 ctgttcccca aattcctgaa aaatgtaaag atccaggtac attcagcata cttgttatta 120  
 tagggaatag taagtttgac aatgccatgc tagatttagg agcttctgtt agagctatgc 180

ctctgtctat ttttaattct ctatctctag gtcccttgca gtcaactgat gtggtaattc 240  
 atttagctaa tagaagtgct gcctatcctg ttggtttcat agaagatgtc ttagttagag 300  
 ttggtgaact gattctccct gttgattttt atattntgaa tatggaggat ggg 353

<210> 12253  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12253

cggtgacaaa ggcatatggg aggccttact tgcataatgag gtgtttctat gtgaacttct 60  
 ccaccttatt agttgtaatt tctcacagtg gtcttgccctc gatcccttgn gtgaagtaat 120  
 cgattgccat tagtaggtat ttaactgttc ttggggccctt taacagtggg cccagtatgt 180  
 tcattcctca catggcaaag ggccatgagg agctcacact atggagattg tccggagggg 240  
 tgcataatga gcttgcaaac tcatggcatc atctgcatct ctttgtaaag tcaaggggtg 300  
 ttgccctgaa tggtggccag tagtagccaa cacgcaccac ctttggtgaa gggatcgctc 360  
 ccagtatgga gatcgaatat tccatcgtag agtcctctca tgacataatt tgctag 416

<210> 12254  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12254

agttttgtgc aactgaagca tgggaagaag acattctatg ctaggcatca ttgatttctc 60  
 aaagaatatc acccaaatcg ttggttgaaa aaaactttta atggaagata ggagtttgga 120  
 tttgccccga taccaataac agaaaaaaaa atttatgagc gaggaggaga aatatgtact 180  
 atcttttgaa agacccaaaa gaaggatgca aatgagaaaa acaaatggaa aaagaggtct 240  
 atattctttg atcttccata ttggtttgtc ctanatgtta gatattgtat tgacatgatg 300  
 catgtggaga aaaatgtatg tgatagttta atcagcacac ttcttaacat taaaggcaag 360  
 acaaatgatg gtttgaatgc tcgtc 385



<210> 12255  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12255

tcttggatgc ctaagtgtgg accctctagg gcaatcctcc atttccattt attttgagcc 60  
 ccatgaatgt catggcctag cgtagctcat gtgtactaca ccttcgagta tggagccccg 120  
 cgaatgtcat cgtctagctc tattagccaa ttctccattc cacactttta tttggagccc 180  
 catgagtgtc attgcctagc gctgtacatg tgcctccac cttcaagtct ggagctatgc 240  
 ttcatgaatg cctaagngtg aaccctcttg tgcaatgtc cattctccac ttttattctg 300  
 agcctcat 308

<210> 12256  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12256

agtctttttt ctgtcccgag actccatggc tgtaaagctg cgaatacaat catgatgac 60  
 tgattcatgt tgaaggccta tagatttcgc aagaagtcac tgctgcatag cctattccaa 120  
 gtcttcaaga gagttttctt ctgtattctt gaaccctca aaagcctcta gagtctgtt 180  
 gtttgggcct ttacaagagg aatcatttaa accaccaga cccttgctct cccttagcga 240  
 gatattcttct tctactacag gctcaagagg ggcagcttta gatgggccat gtctttgtct 300  
 aacatagact ctagagaaca aatcatagct cccttntgat gtctgagccg aagctgggtg 360  
 ggtttccttt gtacaccct ccattctcat tattg 395

<210> 12257  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12257

gcgagacaca ctatcgagcg actgacanat acaagttaat atatttggtt gataaacacg 60

aaaaaaggat acttagaagg tgcataaacc acaccctaac tttcgtcatc caccgaacat 120  
 taatgggacc caatatctag tatattacat atcatatagt gacactatat aaaacgactt 180  
 aagtttttct aacgatcgtt ttcaaacgca atagattccc gtgtcattca atgctttaag 240  
 caaaagagaa gacaatatag acaaaatata aataaaaata tgcactacat attagcggca 300  
 ggcgaaatga attatgcttt caagtataaa ttatgacaga tttcaagtat aaattatgct 360  
 ttcaagtga aattatatat tatatgtaat attatgactc tcaattgaga atctgtattt 420  
 caacacggat tacttaatag tatca 445

<210> 12258  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12258

agtttgacaa accagcttgg ttaactaatg ataataataa taataacttt attttatcaa 60  
 atcttatctt atccagattt tattctatct agattttatt ttattcaaat tttatttcgt 120  
 ccagatttta tttcatcaca tcttatctta tcttgccag attttatggt atttcgttta 180  
 taagtttgga cttaaaatag atttgtaagt tttggggctg aggacctata taacagcacc 240  
 aaagtttttag gttagggagt ttttttccgg agaggagaat aattctagga ttttagaatt 300  
 tcagttttta ttactgttca tgcacactgt tcatgtagaa taaaattcat tttttgcaaa 360  
 tcatctctaa tccatacatt ttntaatatt at 392

<210> 12259  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12259

taagtctaga ttaatntaat tgtcactatc catggcaacc tctttgatat tttttttttt 60  
 cctttttaag aggaaacaga tgcagacact gacgaatata aatcacanaa ccgtgaagaa 120  
 aattcacaaa aacgctaaaa tttcataagt tctcaacca cattcccaa accccacaag 180  
 ttttcttcat tntctcagca aacaagcagg aaaaaaaaaa ggcaaatcag gaggattgca 240

cattatgcac aaagtttagat ctgagaaaaa aaaaaaccca aatgcatgca aaatagaaaa 300  
aagaaataaa caagttgaat caacaatgat gaaattgaaa aataaaatta anaaanaaaa 360  
agtagaaaga gaaggtggaa aattgaaggt tacc 394

<210> 12260  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12260

gatcagctcg accgggatcc ttaatcgact gagctgcagc tttgtttttc tttatcgccg 60  
ccaccatcgg gttagacgga tatcttaata ttagtactnt gattttcagc cttgtatttt 120  
ggctatatta gtatggtatt tgaacaattg actatttcct tatttgcagc gcatgtttgg 180  
accaatatta agtatgttat ttgactatgt ggagtttata attaatctat gcatggntgg 240  
ttgattcatg gtttcatggc tcttgcttct tgcttcacga tttgggtgat attgtttacg 300  
aacattgtat ggatgcttaa attaaattta tttgatacgc attttggctt tttgttgatg 360  
ccaaagaggg agagaaatga gattaaatca agcattcaca tcaataatca acttattgtt 420  
aagatatg 428

<210> 12261  
<211> 473  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12261

tctgtcaact aactaatatt tctaattgca agttcacatt cttgttcttt ctttgtctaa 60  
catacactact tgctcaaact catgaaaaga aacacaaaact ccatcataat catgcattca 120  
aaccaaaatc aattcatata ccaattntca caaaaagagt ttcactgcat aatcatccaa 180  
gtcaagtcaa actgttctat atgcttcana ataagcatal caactaacca taaacaaaaa 240  
acaacaatgc atataaacac taaccaaact cactaaaaac attgtactaa aactataatc 300  
ataataataa caatccanaa agcatcatca ggaatntaaa attcctgtga ctggctctaa 360  
gtgtcctgtg tctgaacatc ctctcattt gacagatgaa gtactggagt agctggagga 420

gaagtgttca gagtcangac tagtgtgatc aggtcctcan gtatctctag gat

473

<210> 12262  
<211> 342  
<212> DNA  
<213> Glycine max

<400> 12262

agctttcatc accgtcgtgg tgctttcatc ggtgtcatct tctcatgacc atcgtgtcac 60  
tgtcaatgtc gaagtgtgaa ctctccacc acaagactct catcattaga agctatgaac 120  
ccatctcttg cattctcatg tctctttgt tgaattatga tgggatcaga gatgggtgtg 180  
ttgttgatga cattggcttt acggtgcggc ggaaggagcg ttagggtttg tggttaagat 240  
tttgaaggaa aatgggctca aaaccatatt ttgggctcaa gagtctatta catgtagaga 300  
aagtgtaca tcctatgatg ttgtcctaa gacaattacc tc 342

<210> 12263  
<211> 412  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12263

cactcaagct ntctcttttg tgcaactatc tcctctctt tttcaggtgt agaatgaagc 60  
ttgtcttgtt ttggtgcagg tgctgtact ggtggagaca cttgaatttg gattccagac 120  
ctcaaggtga tggcactcac attnttcaga ttctgcacag tttgtcaagg atatttgtca 180  
gaattttgng actgagcttg tgtcaattga gtagccatct gccccatctg atttgtcaaa 240  
ctctgaataa aggctcttgt ctcttactga cattgcatat tctggatggc catttgctc 300  
actaactctt ctaaggaagg ttgaggaaga gcctcagttg cttggtggat ttgttgagac 360  
tgccgctgta ttggaggagg aacatatggc ttgcttgtag cagcaacatt ct 412

<210> 12264  
<211> 380  
<212> DNA  
<213> Glycine max

<400> 12264

agcttatgct tttaacgaaa ggttcatcaa gtcaagttaa agtatggaag taaccatcct 60

gcaaaaaatt ggggcaaaag atagatcgag ttacatcgct gctttgtcta ttgccaaaca 120  
catttaggac tgttgatgtc cttgttactt ccagtttcac cttgacaaag atgtaatgga 180  
ccatgttaaa aatctaaatt gattaaaccc catgtcatgc gtaaaaattc gcaatacttc 240  
aactgtgcat cattcacata catacatgct tttcattggt tgcattgttc attgcattct 300  
ttccttgaca aaaaaaagat aaaaacgaac ttaatcattg ttatcacaaa gaaaagaaca 360  
tgctttacgg tacccttata 380

<210> 12265  
<211> 315  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12265

tcctaccccg caagggcatt ggatagaana ctccaagtag atagcgccac agatgcatga 60  
gaaggcccta tggttcttat gagccttagg gtatatatcg ggcccatggg ctaagtatga 120  
gcctacttat ctgttgaaat attacattaa cgcttcatta ttattgggcc tgtgatttat 180  
ggctccataa tgtacgtagg gtaccctaga aatatatgat ttttcagccc ttgtatttta 240  
cggtacctat actagatctt gtattatggg tagttgtgta gatttacatg aactaagtgg 300  
atatngatg tgtgt 315

<210> 12266  
<211> 354  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12266

tctagcttct atgagaaaaa ctacttgag aagctagagc ttagctacac acacccttct 60  
aataactaag agcacctcct tgagaagctt tcttgagaag attcctaacg aagctagagc 120  
ttagctacaa atgggggaaa agaaagaggg agagaaagag aaacgagggg ggatgatatt 180  
gaaggaagaa gaaaggaaga gaagttgaac tttgagttgt gtctcacaag actctgattc 240  
atcaaagtta cgacaagtgg tacacgtgct tctatttata gactaggtag cttccttgag 300  
aagcttcttt gagaanaact tncctgagaa gctagagctt agctacgcac accc 354

<210> 12267  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12267

cctctctatt ggggaatcac aactgatgga tatgtagcat ttgttatgat ttagttggta 60  
 aggttcctct ctaagagcaa aattataatc taagcaagtt cggttaggct ctcaagtgg 120  
 tgacaagtct cgtttaagtg gtcttttttg ccttggttaa caacaaaatc gagtgtagg 180  
 tgcaaaaatt ggaaagctcc actacacata atagcagtat tatttatttc aatatttgtt 240  
 tttgcattca tggtagttt gcttatntg tctgtgtggc tctcttcatt tatgaactnt 300  
 gagacttata tgttatgata tatttcattc atttgatgcg atgaactatc angtggaagg 360  
 gtcagcagtc cttgcaggca cagagtagaa gatccatctt caaatagagt accgtgtgat 420  
 gcattaatgg agtaatgtgt ttatgtgctt gtgacagtaa gtcttgcatt canggccatg 480  
 taaatacctt taatgataac tat 503

<210> 12268  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 12268

tcaagcttga ggaactcata caaacttgag gcaatttata cgcttaccat ggctagcatg 60  
 atcacaccta tatatctata attacctatc cccactaatt acgtgaatct atctcttacc 120  
 attgaaatct gaactaataa atttaaatac cttttaggtt atctataaat acaaacagtt 180  
 gcagctatac cccctttacc tctttctttc ttcttatacc ctaagcacta ttcattggacc 240  
 gtatctgcta tattcagcta ctttcttatt gctagagaga agctaataca atcctacccc 300  
 gaaaagcatt gatagaagac tccaagaata ttggactata gctgttgaaa aaagccctac 360  
 ggtcttcata acc 373

<210> 12269  
 <211> 458  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12269

gctcgcccag gcgagcaagg ttgcttcctc cagaagaaac tacctttctg gaggaatctt 60  
tggagggccc aagtggacct ggttgctatt tacaccccc tttttactaa atgcaccnc 120  
ttatatattn ttctgtaatt cttntccgt aacgttacga aactttacga atttcgtaac 180  
gatacttatt ttcctttccg caagggtacg aatccttacg gatttatgta tttactcttt 240  
ntggctttca aagaagttac ggaaactcac ggattgcgca taaacacctc ttttcgattt 300  
ccgccacatt acggaatttc acggattacg caagcctgct tccttttggga tttctgagac 360  
gtctcgggac ttcattttatt gcatgtcatc aatttataat cctcggacga aattaaggta 420  
tgacagttgc ccctctttac ttacctctca tcggagat 458

<210> 12270

<211> 174

<212> DNA

<213> Glycine max

<400> 12270

agcttctatt gatgttccaa gtgattcttc tgctgcagta attgatgact gaagagcctt 60  
acctgagatg ttgaacatat aacaaatata ttgcgatata ttctacacac aagattgttg 120  
agacgataca tgattcagca ataggggagg acaggcgccc ggcacccttg ttcc 174

<210> 12271

<211> 357

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12271

tagtgttgga gacttagttt gtaatgttat tctgcccata gatagtaagg atcgagcctt 60  
gngcaaatgg tccacacatt gtgaaggacc gtttaaaata attcagatct attcgaatgg 120  
tgcttatgag ttagaggagc taaccctca gaaacgtact ttgagcataa atggtaagta 180  
tctgaaaaaa tataaaccaa cactgctcga agttaaaata agcatagaat aagagaaata 240  
cgggaaacat aaaaatggcg ataacagtaa attgccacga aagggcatgt gtcaatatta 300

catcgaatag tataatcgaa atacagaatt cgaaataaag aaatcataag ttctact 357

<210> 12272  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 12272

tctatcttga ataaaaactg ttcgagaaaa tgtccaacta aaaagtgaaa taaaggaaga 60  
aagagaacga tatgaggaaa acaagaaaaa agacaggaga agattgagga agtgaaagac 120  
aaaaatgaag gagtgtagcg gcctcgtagg aacatgactg ataaagaaga aaggaggtgg 180  
ctctagcagt gcaaccagcg agcaagaggc aaaatggtgt cgtttgggta gagaaatgcg 240  
gaagtgtgcg gagagagggg ttctagaagg gtcaaggaga tgcatacagt cctaacaacg 300  
tcactctcaa acgcagaagc ataataaaca aaggttgtgg aaatatcata aat 353

<210> 12273  
<211> 404  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12273

cgcggggtctg tgagacanag gtcaagtgtt cgcgatatgc gatgatgatg ttccgagtac 60  
tntggatttg gtacgaccat gccctcctga tttccagctg ggaaattggc gaggaggagga 120  
acgccccggc atttacgcaa cgagcataat gtaaaccctt acggttntaa aagctctata 180  
gttgggccta ggctntagag ttnttccttt tgtaaggct ttgtgtcttt tgttnttgaa 240  
tttataatac aaggatcttt ctcatctgt tcttgggtct taccattct cattcatttg 300  
catgtttact tctttttctg aaacggcaga tccgatgacg agtccnccga aggtactaat 360  
acctgngacc cgcctatcga cttcgagcaa gaaatgaatc aaac 404

<210> 12274  
<211> 385  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12274



agcttggttca tagaagtaat aactaaatgg gaattgtaga aacacctacc aaacgctgtc 60  
 aaccaattaa aaaaaaaatt gtggacaaat atggaagcca ttattctgac tagcttccag 120  
 cttctaataga aagaattgaa ccgccgttca caaatcatc atcaactgga atgttgctgt 180  
 atcctctacg cattattggt gggtttaagt ttgcagatc ctctcaa at accactgat 240  
 atccacaact gcacacctcc aagtgc aaac cttgagagtt gtcgaccatg gcatgcattn 300  
 tgatgccata aagatcaagc attntctcta ttttaagata ggaaaaaac tctcccctag 360  
 tcaaatagag taaccacaag tgatg 385

<210> 12275  
 <211> 567  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12275

cgggcttgat gaatcattgc aaggcgaact atgatactaa gctagaagga agcttaatgg 60  
 aggaagagaa tgagagagcg gcgttggtggg tggctgtggc ancncncgc gaencnngct 120  
 ggagggtac ctctcttctg tcgccccct gcccgteenc gcgctcntgt tctcaagtgc 180  
 cttctggttt ccttttctcc ctctgctttt gtgacctcc ttgtcttccg tcgttgcttc 240  
 ttccgttgtc tcccttctg cgccccctcc tccatgtctc ccttcctttn tgggtgtgtgc 300  
 ctctgcagcc ctcgattctt tacactctct catatagact acctaaacac atcttgata 360  
 acgctagtgt cacataccac aacactcacg gttaatctca gtccccgacc gtcacatact 420  
 taccctatta tgtaaacact ctccacactc ttaattgtgg atggtaagct tctctgcgta 480  
 ccaccattcc tatacaatat cctcacttg caagtctctt atgtttaatc gttcataacc 540  
 tattctcact acacatgaat cttaacg 567

<210> 12276  
 <211> 377  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12276

agcttgccgc ccagctcgcc caggcgagct cagctcgccc aggcgagcag ggttgcttcc 60

tccagaagca accgccttct ggaggaatct tctggagggc ccaaattggc ctgggtgcta 120  
 tttgcacccc catttttact aagtacaccc cctctgctg ttttttggtg attctttttt 180  
 cgtaaagtta cggaaactta cgaatttcgt aacgatactt gttttctttc cgtaaatgta 240  
 cggaaccttg cggattacat aatcatcccc tttttgactt acggaatggt acggaacctc 300  
 acttaattat gcaacgatgc ttccatttga tttccggtgt gtcacggaaa cttacngatt 360  
 gtgcataata tttttttt 377

<210> 12277  
 <211> 477  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12277

tctagccaat ggacatatct ccncatcctc tctaccagtt ttctatctat attntaagca 60  
 cacatatatc tcanaacatc attattgaac cctanatcaa catgggcagt tntgcttaca 120  
 ttaaacaatgt caagtttagc ataattacaa taatttcctt cacaaacaac taccctaaag 180  
 caataaccta gtagaactac ccattatagc tcccaagaac ccaacacctg ttggatcgag 240  
 tggcctcaaa ataattaaga aggggggggtt gaattaatta ttctaaacc ttactaatt 300  
 aaaaatttac tcttttaagg cttttactta tgttggttaag ggaataagga gtagaagaga 360  
 aacttaacag aaagtaaaag cgggaattaa atgcatagcg ganagtaaaa tattaaggaa 420  
 gaagganaca aacacacaag aagttttaat actgggttcgg aacaacccgt gcctaca 477

<210> 12278  
 <211> 363  
 <212> DNA  
 <213> Glycine max  
 <400> 12278

agcttatata atcgatctta gcatctaata aattggcatc cttcaaccat acattcggtta 60  
 aggagtgttc tattttcttc aactcggatt caattggatc ttctaaagcc acactttctt 120  
 cttttttaga gcatggtcta ttttctaaca tccttttttt gccttctctt gcatctatca 180  
 tttcaactag agtacgggtg gccgaataaa ccaaattggc tgatttttct gttggggctg 240  
 gtggatactt tctgaaagct tgggtccaatg caaggactac ttgacttacc aatgtcttgc 300

cttgccccct agctttcaga tatgcaatca tggetagggt ctacttcatt ttggatcatag 360  
cct 363

<210> 12279  
<211> 326  
<212> DNA  
<213> Glycine max

<400> 12279

gacattcata tatcaagtat cataatatta tcataaaaca taagaacata aaatatcatt 60  
attataattc aagtcattta aacacatgca taataattaa tctacacaca cacacagtta 120  
gacaaagtac ataaattctc tgtaaacata cagtatttga caatttaaaa tgtaatatta 180  
gaataacatt atccaaagta agcaattctt aaaaaaatta tcatgtcttt ataatctcca 240  
ctaactttaa tagtaacttt aatagatgaa atgtagctgt attagcagat ggataatcat 300  
gcatattaat gacttgaata gggata 326

<210> 12280  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 12280

agcttgcata tagacgttgc aacttgcaag ctctcacatc acctttctcaa ctacacaaaac 60  
gttatcacat taaccacagc atcgcatgcc atcaccatat tttctagttt gtgtctctaa 120  
ttctgctctt ccatattggc ctttgtcatt tcaacgcctc tctctctctc tgatcagctt 180  
atgtttatgt ttatgtgttc tgcccaattt ttgttctgct cgtggcatac taattttgga 240  
cctcattagt taggctcatg aaaaaagcaa gctacatgtt atttccacct aacatttttg 300  
ctgtttccac cccaaatttt ctttgaatc cttgcttcta gatacagaac ttatatattg 360  
caaggcgcac acccaaaacc ttat 384

<210> 12281  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 12281

gtcttgtcta tctgtctct ctnggtctct tgaatacact tcttgtcaac ttgatgttnt 60  
aataccaatc ttctaactgc tgaccacttc actcctctcc ccagccctct gatgttatat 120  
gagataatat tcatgatgag atgtttctct ttcccaatgc ttcagcttcc tttctatctc 180  
tgatctccat tgttgtgatt ntgtcgatga ttgttgattg ctcttccct gatgtcatcc 240  
ccaggattnt agccatttcc cattgagcgc tggcctcttc tctaatagtaa ttattacatg 300  
gaatcttggg ttgagatgcc cttgactntt ctgattcagt ttcgggctcc cttngcctg 360  
agtctgggag agcgtgttgt ccatcattcc cctgtttgc tgcttccatt tcctttatag 420  
cctgagtc aa cttatg 436

<210> 12282

<211> 360

<212> DNA

<213> Glycine max

<400> 12282

ttatcttggc tgttacaaaa tcagagacat gagtcatct ccaaactaa aagaacattc 60  
tatcttgata tatctcgatg aacaattgag agtgaacaga cgtgatgcat aaaaaaaaaat 120  
taaaccacaa taaaagttaa taacacaata aaaaaataca tatttcaatt ttttcaatgt 180  
catccatgag ctcttcaata tcacgtgtcc atggagagga tcaacaccaa ttgtgtataa 240  
accaatgctt caattgtctt ttgaggagag agctttcata acaattaagc actttacctc 300  
atgtcctata aggagactct gacagacca caatcacaa atataatgat gatcgaaaca 360

<210> 12283

<211> 362

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12283

gactctgcta ttctctctat ctacgggtat gcgtganatt tccatactac gtcaaagtca 60  
tggccaaaag atcgacgttt ggctcaacaa gcctgccaat ggcgggacat ggtgtatgtc 120  
gggatatctg tttagcaaat ggctcagaaa taagggaatg cccaaatcat ttccatgaca 180  
cacatatcat gataattaga aattcatgca taattaatca tagcacatat ccatgtggac 240

actcaaatat aaggctttgt ggccatgcaa acactaacca tgtgtttgga tgaggaattt 300  
 acaaattgct aggaagatca tatacacaac attgtgattg ccttgactta aattcctttc 360  
 at 362

<210> 12284  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 12284

agcttaacat atttagaaat caagtgatca tgtattccga aatatatggg gagtaaacgg 60  
 atgcacattt tatctatata caattgttcg ttgcttgctc gaatcttgat ttcaggtatt 120  
 gtattgtcat catcaaaaag ggggagattg tacatgcaat cggctttgat gttttgatga 180  
 tgatcatgat gatgtgctgc aaatgggctt ttcaagatta aaattcaaga caataacttca 240  
 agattacaag tcacaacatt aagatgatca ctagaatatt aggaagggaa ttctaattg 300  
 aattagcaaa ggctcgcca agtgatttaa aataaaaagt gtttcttaaa ggggttactc 360  
 tctggtaatc gattacc 377

<210> 12285  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12285

gtggtaatca gagcacaaga gttcaagta tgtgctcctt atactctcca ttaatttntg 60  
 ctttaccttc tcttcatta gtagttctt catttttctc catgtatctc ctcacatgct 120  
 ttgtgataaa tgtttntaac atgattgttt agagtttcca ccgattaaac ttgctataga 180  
 agctagattt gattntatat ggttcanatt tcttggtctt gttcttgaac catgaattgt 240  
 gttgagttta agttcctttg agtntgtct tgggtatttt tttggctgan acctannacc 300  
 atagaattct taaaaatat taaagtagaa gaaaacctca naaatctaga gtgacttggt 360  
 cacctattgt agtntgtca tagaagtcac gtctagtcac gaaacttgct acataagatt 420  
 tcttatgttg tgctgaatt tttttcttg gttctttgct taactcattt gntcatgagt 480

<210> 12286  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12286

agctttgaga aaattcaaac gacaataact ttttactcgg atgtctgatt gagtcccga 60  
 atatatcgag acgctcgaaa ttgaataccg aagcgctaag caaattcaaa cgacaaaaaac 120  
 tttttactcg gatgtctgat tgagtcccg aatatatcga aaagctcgaa tgtgaatgta 180  
 gaagctctga gcaaattcaa acaacaataa ctttttactc ggatgtctga ttgagtcccg 240  
 taatatatcg agatgctcga aatggaatac cgaagctctg agcaaattca aacgataata 300  
 actttntact cggatgtccg attgagtccc gtaatatatc ggaacgctcg aaattgaatg 360  
 tagaagctct gagcaaattc aacgacaata acttttac 398

<210> 12287  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12287

gagaataaca acacaaacac cattcaagta tgaaaacggt actgatattc cttgggcagt 60  
 ggattggagg cagaaagggtg atgttacttc aatcaaggag taccatcatc agtgctacca 120  
 tgaccaataa cagtaacacc atggtctagt tgactccac attgtccagt gcanaaaccc 180  
 cacttgagaa gaattggaaa gaagatccgc cggcatcaat ggtaatcgac actggttggt 240  
 ttgcaacagt aacaccaact gtctggatga ttgatatatg tagctgagta tgtgtatcta 300  
 aagcttacac atatatgtta gaatatctga ttcccataag acatatttga ttatcatcct 360  
 atatagatgg ttaatgttat tctatcac 388

<210> 12288  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<400> 12288

agcttcgtgg gaaaccagtg catggagggg aaggttgat agtgaagttg atctgtggga 60  
 ttcacaatca tgaattggcc aagtccttag ttggacatcc atacggtggg cgattgacta 120  
 aggatgaaaa gaaaattatt gctgatatga caaagtcgat ggtgaaacca aaaaacatct 180  
 tgctaacggt gaaggaacat aatgccaca gttgcaccac gataaagcaa atttacaatg 240  
 caagaagtgc atatcgttct tcaataagag gagctgatac cgaaatacaa catctgatga 300  
 agcttcttga acatgatcaa tacattcatt ggcatagatt gaaagatgaa gttgtggcgc 360  
 gtgatctgtt ttggtgtcac ccagatgctg 390

<210> 12289  
 <211> 492  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12289

gctttcatat attacgggac tcaatcggac ttcctattaa naagttattg tagtttgaat 60  
 gtgctcaggg cttcgggtatt ccatttcgag cgtctcgata tattacggga ctcaatcgga 120  
 catccgagta aaaagttatt gttgtttgaa tgtgctcaga gcttcggtat tccatttcga 180  
 gcattctgat atattacggg actcaatcag acatccgagt aaaaagttat tgtagtttga 240  
 atttgctcac agcttcggca ttccatttcg agcgtctcga tgtattacgg gactcaatca 300  
 gacatccgag taanaagtta ttgtcgtttg aatttgctca gagcttctac attcaattgc 360  
 gagctnttcg atatattacg ggactcaatc agacatccga gtaanaaagt atgggtcgtt 420  
 gcaattgctc agagcttcag tattccattt agagcgtctc gatatattac aggactcant 480  
 cagacatccg ag 492

<210> 12290  
 <211> 367  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12290

agtttatgtc ccaagctatt caaagtcttg actagcaaat ttatttgtct aaattattgg 60  
 gatatgatta tgttatacag tacaagtcaa gatctcataa tatcgtggct gatgcattat 120

cccgaattgc ggcaccggat gaagcacagt tttactccct atcagtgcct atgtttgtct 180  
tcttggatca attccgggat actctnttaa aagacaccca atacacaaca ctattggatg 240  
aggttcgtca aaatcccgcc aaacatcctg aactcaaggt ttatcacgag cttctctttc 300  
gaaatggaag gatatggttg tcgttcgcaa cacattttgc tagcttacta ttgcaggaag 360  
ttcactc 367

<210> 12291  
<211> 488  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12291

ctacaacctt ttcttcccct ttggcaacat cttagagtca atgttctcgg anatcaacac 60  
agttataaca atggagtagc aagatataag tatcagagta ttaaatccaa taagccaaac 120  
tcataatcaa gaaaataatc aaaccagaat tcaaataaca tacaatgtca acaaccacaa 180  
aatatccaag actgaaacac aagagaaata agcaaagtac ttagcataat aatgtaaatt 240  
ctaagaaact aaaagccaaa atacacggct tataaaagat aaataagcag aatctaaaat 300  
ctaagaagac ggaggaggtg gtggaagatc aaaactctga cgaatgtatc cgacatcctc 360  
ttcaagctgt gtaagacgaa tgtccatacc ggcaaagcgt gaatctaacg agtcanagcg 420  
gtcaccaaca tacgaacgaa gacnccgtaa ttcggagagg acttcattca tgagtgcgga 480  
atcttcac 488

<210> 12292  
<211> 294  
<212> DNA  
<213> Glycine max

<400> 12292

agtttctaata cagttgttgc ttttgaatgg acgattgttg ctgttgatga atattgttag 60  
tttggacaac tctctgggga ttcagaagtt ggggtgtgagc ttgatcgtgt ggtaaagttt 120  
gatttgtcaa gttccttggt tggtagtgat tatcacccaa ctgctgcagc ggctgtgtga 180  
ctgctcccaa tgcactggat gggcatggtg gcttctgaat gtgatcgagt tgctgggaag 240  
tctgaagtat attctgagct tcgacagata cattgtttga ttgagagatt tgtg 294



<210> 12293  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12293

gctcgccag gcgagcaggg ttgcttctc cagtagcaac tgcctttctg gaggaatctt 60  
 ctggagggcc caagtgggcc tggttgctat ttgcaccccc attnttacta agtacacccc 120  
 ctgctttntt tgggtgattct ttnttcgtaa agttacggaa acttacgaat ttcgtaacga 180  
 tacttgtttt ctttccgtaa tgttacagaa ccttgcggaat tacataatca tcccttgttt 240  
 gacttacgga atgttacgga acctcactaa ttgtgcaacg atgcttccat ttgatttccg 300  
 gtgtgtcacg gaaccttatg gattgtgcat caatattctc tttagttctc cggcatgtnc 360  
 cggaatttca caaattgcct aatgatgggt gccaaagtacc tcacaaggac caaac 415

<210> 12294  
 <211> 375  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12294

agtttctata taagctgaac cattttatca ataaacacaa gttgagtttt attcagaaaa 60  
 ttagagttta tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120  
 gaacacctg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180  
 agtgattctt tccttctat catctccacc cttgttcttt caaaccataa ttccagaaaa 240  
 tccacctctg cccaaaatta tcttgtgacc ataactccca ttttgcacac tcaaattaag 300  
 tgattcttga gcctaaatta aatttcaaaa cgagaccttt cacctcgttg tggaatcacc 360  
 tcatnnggag ccctg 375

<210> 12295  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 12295

ctggagctca tataccctct tgttcttggt ctgatacgta taatatttca aaaaattgct 60  
gtctgggttt ctgcttgcat atcctgtggt taactggcat gttcttttct tctgtaactg 120  
caaaaacata tttacttggt gagtggcttc taactttaat aatctataac aattcttaat 180  
tatacgaatg acgcccattg ctgattgcat gaacaaatga attgcaatcc ttccaatcct 240  
ttgaatcact tctcatgcta tcatgcatga ggaatatagt gctatcttat tcatatgccg 300  
acatatataa attcttgacc cagtcgagca tgatattaac ttactatcta t 351

<210> 12296  
<211> 274  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12296

tcaagtttta catatatgag aaaacctagg cttgtatccg tttagaatta ttactttcaa 60  
gactaatgga ggctcataat agaatacagga ccaatctaag ttattaatac attctgcgtg 120  
aactaactta ggatacaaag tgggttttta caaactaaat atatatacat tagaagcgaa 180  
agaactaatc ttataccata tttgttcttt ataaattaaa ttgcactagt agatcggtac 240  
tatttaaaat cngaaggcct acttctaact aatt 274

<210> 12297  
<211> 491  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12297

gcttgagntc tctccacacc atttttttta tttaattctt ttatattaac acttgatgta 60  
natcacacag ctcagctagt tgtataggaa tactctntca agacaataat agtttatcta 120  
cttgatcatt ccagaatttt caataatggt caaaattcaa tggccaattg atggttctat 180  
ccgaatatcc taccgccgaat tctaagttta agccgtctaa atttcaaagg gaatctaaat 240  
cttccacatc tccacaaacc angatcctgc aatctcttan aggactctgt cctagtcaac 300  
ttgcgcttgc cactgttatc atttctataa tgagagccag aatctccttc cacgtaacta 360  
cccttngagg ctaactcact ntctctctcg gntccagcan aagggatgga tccaatttgc 420

ttgatcatgg cccaaggatc ctggaattca tgctcagaat cactnntcca canagatatg 480  
gacttgataa t 491

<210> 12298  
<211> 204  
<212> DNA  
<213> Glycine max

<400> 12298  
caccaccatt cacgaatgta catcctatgg tactttcttct gtccaaaaca tctccacacc 60  
aattggagtc ggaataagcc acaagatgtg gtctaccctt ctgatcgtga tgtaagaata 120  
caacgcccatt attcactgta cctccaagat atctcacaca tctcttagtg tgctaccatg 180  
tgagagtgcc taggatcact catg 204

<210> 12299  
<211> 329  
<212> DNA  
<213> Glycine max

<400> 12299  
agcttgtctt ttcgtttatg cgagacagag accaacaatgc tagctatcat cgccaagtac 60  
caagaagagt taggtctagc cacggcccac gagcgtaggg tcgcggaaga gtatgcccac 120  
gtatacgcg aataagaggc tagaggaagg gtgatcgact ctttacacca agaggcaacc 180  
atgtggatgg atcggtttgc tcttaccttg aacgggagtc aagaacttcc ccgattgtta 240  
gccaaaggcca aggcgatggc ggacacctac tccgcccccg aagatatcca tgggcttcta 300  
ggctattgtc aacatatgat agacttaat 329

<210> 12300  
<211> 519  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12300  
gctatctatg cttttacctc aaattttatt ttggtgaatt tatctatcaa agcattcacc 60  
ctcaacattt aagagacttg tgagttntac cttctatcaa tttacacata acataatttc 120

actttntaac	cccaattntt	tttttgcaa	attttaccct	gatcttttgt	tcttactaat	180
ggataatgat	aggaataaag	taagcaagtt	ttcttaaaag	tcaagagtaa	aatgtgtcaa	240
attaattntt	tgaaaataaa	attcgccaca	aaaaattgcg	ggtaaaaaagt	gtaattaagc	300
caaattaact	actattttca	tcttactttt	tctttgtctt	tctaaaacaa	tatatgacaa	360
ctattattgt	gaaacggagg	gagtaacatt	atccattctt	actaganaan	naatattcat	420
tcctttgtat	attacaagaa	atagctatga	taaccgaaga	aatatgagtt	ntgcttacca	480
tggtattgat	atgaagtatc	tatcacacaa	gatcatgac			519

<210>	12301
<211>	383
<212>	DNA
<213>	Glycine max

agtttggatc	ctcttaacaa	cttcaccaat	cagctttcta	aaaatcaacc	agttaaagtt	60
cacaggtgct	ataaatctga	gtgacaaaaa	tgtatggtat	ttgtcaaata	gtccctttat	120
ttgtcggaca	tttaaaaaaa	aaaaaaacca	acccaaagct	tatacacaac	tgactcaagg	180
taaattaaag	aagctgcata	gagatttact	agaagaaatc	aggatacaaa	caagcacatt	240
tgtgttcata	tccggcatgt	gctgtataag	atattcggtt	acagaagcct	gttgcagaaa	300
ccccatacga	aaatttttaat	gataaaaacat	tatatacatt	aatgggggat	gtattcaata	360
ggagtgc	caagcagata	accctt				383

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<223>      unsure at all n locations
<400>      12302
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ttcaaacatc tctcangagc tntggtaagt caatccatat atgttccctt ntctttnttt 360  
 ttacctacat gtattctcct ttagagataa ttntgattga gacacagtta aacactanat 420  
 gtgaatattt ctccanacat anattcanac tttgattacc atgtggtgga aactaacctt 480  
 tatg 484

<210> 12303  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12303

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 tatctctact tatttagaaa tgtgataact cactccatgt gtgttatttg tgtttagatc 120  
 ctgtgatgat atcgaatttt atgttcgtgg gagcagatga ttaggtggat gattttaaat 180  
 aacctcgtgc tagaggacgc tgggatacaa cactctgatg gatgtgacat tgacgtatga 240  
 atttctatat tatttgtata atattctgaa catgttattt tatgttgctc cgctgtttaa 300  
 ctagtttttt gtttttaaaa aaaaatagac gactttgttt gcggctagag acgtttcata 360  
 ctcttataag tttt 374

<210> 12304  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12304

acccttgaa ctacttcaca ttgatttatt tggtcctca agaactatgc gtttatgtgg 60  
 aaattactat ggcttagtaa tagtagatga ttactcaaat ttcttggaact ttgtttttga 120  
 aaacaaaaa tgaagctttt gatgattttc acaaacttgc caaggtgatt caaaatgaaa 180  
 aaggtctcaa cattgtttca attagaagtg atcatggagg tgaatttcaa aatgactttt 240  
 atgaanaata tgaaattcac cataattttt ctgccccaa gacatctcan gagactggtg 300  
 ttgtggagag gaaaaataga tccattgaat aatgtgcaag agaccttcta tatgaaacaa 360  
 gggtagctaa gtactatata gaagaatgta tacatacgta tttgttcacc ttgaacagag 420

tacttattag acctatct

438

<210> 12305  
<211> 397  
<212> DNA  
<213> Glycine max

<400> 12305

tctagcttat aagaacaaaa tcgcctcaat cattgtcaaa tatgcatgtg aattaggacg 60  
catcaacaag aatcaagcca aggcatttgt gcaagcaatc aatggggcaa aacacaccaa 120  
atgattatga tgatggatgg ctcaaattct cacaaaggta aactcatcac tttcaaattg 180  
agctttcaaa actatcatga catgtagagg agaatcaagg atttcaagtc acaaaatgtc 240  
aaaaattttt attgtcaaaa caattaccca tttcttgaac atatcctata attcagagaa 300  
aaatatgcaa aggtcgtaca tgcacacaaa attggaccca aacattaaac taacaatccg 360  
acaacattaa caaattaaca aaaccaacat aactagc 397

<210> 12306  
<211> 430  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12306

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gttatgggaa tgttgcgaca atccttcana accttattga tacattctga gaggttggtt 180  
gtcatgtggc catatcgacg tccttctcta tcataagcca tcgttcattt ttcttttgaa 240  
atgcatgcaa tccatgttgc tatggctgga ctcaattcac gaaattnttc taaattntga 300  
taaaaaaatg tgcttgcaag gagtgtangc tgcataaaat tagttatgaa taacaatctt 360  
aagtacatat ganagttaaa taaacgtcaa ccatcaaata tgaaatctta cccaatntct 420  
tcaacatttc 430

<210> 12307  
<211> 274  
<212> DNA

<213> Glycine max

<400> 12307

agctttgagt taattcttac gacgataact ttgtactcgg atgtctgact gaaaccagtg 60  
atatatcgag tcgctcgaaa ctgaataccg aagcgtgac caaattcaga cgaccataac 120  
tttctactgg gatgttcgat tgagtcccg aatatatgca ccagctcgaa gaagaatgac 180  
gaagctcgga gcgaattcgg acgacctaaa cttgttactc ggatgtcgga ctgaatccca 240  
caatatatcg ggaggctcga atgtgattgt tgaa 274

<210> 12308

<211> 397

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12308

agtaatagnc tgcacttaga agaagatagt aaacttgata cagggtaaat agataatggt 60  
caaatagaagt aacggatttt attacaaatt cgtatgaatg aattgccaac aaagtattca 120  
atatttctgc caatgtattg tcttgtaact tgtaaggtta taagaactta aaggcccctc 180  
aatatcaaaa taacagaaga atcatcttgc actggcctta nattattctg ggaatttgta 240  
gcacanaatg ttttcaacct ctccgtctgt gttggctgat aatcagcagt tgtttgact 300  
ctggatcatca attgatttgc tgttttcttc actctcttcc tttcttgtag tgtaattaat 360  
gtgtacaatt tgcagcttca aggaacacaa tgatggt 397

<210> 12309

<211> 143

<212> DNA

<213> Glycine max

<400> 12309

agcttatttt ttctatacac taaccataga ccttcattca tacctttccg agtgagtgat 60  
aatgctacac gaaaaattac ggcacttacg atatcttaat ccttagatga aagcgtaaga 120  
gactatcata gctaattact aaa 143

<210> 12310

<211> 344

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12310

aacatgctaa ctntcacgtg tggcaccgta accgaggaga tctccctgtg tcagacaggt 60  
 gtccaattcc aaacatgctg aagatcaact tatacacata tattatgata gctctttact 120  
 ctaacttctc taaaatctga aatacatgag ttgattctga ttcattggag aactacaaca 180  
 cactctagct gctatgtgtg tgttcttata ggaagagttt acaaagaagg tcgcaatgca 240  
 cacacgcgag ctattcttaa ggtacgtgat gatcttacta agagtgatac tagttatgga 300  
 acacacagat gccacccgct cgtcagacac actatcaagt aact 344

<210> 12311  
 <211> 110  
 <212> DNA  
 <213> Glycine max

<400> 12311  
 cagtacatta tccaaagcta aaggcaccta actatgcaca caaatggatg atcacaccaa 60  
 cagcatacgg acattaatca ttgaatgaag catagaacac acatcacata 110

<210> 12312  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 12312  
 agtttgccca gagaaggagt ccacggagga aatgcttacc acctcaaaag actggaaagc 60  
 ggtttctaata gactcctctg cggcttccac ataaggcata gaggatgggc agctcaccaa 120  
 gatgtcttcc tcgectgata cgatgaccag atgcccttcc actacgaatt tcaacttttg 180  
 gtggagtgtt gagggaaaca ctctactga gtggatccac gggcgcccca acagacagct 240  
 gtagggggggg ttaatatcca ttatttggaa ggtaacttga caggtgtgag ggcctatctg 300  
 tactgggaga tcgatctctc ccctaacctc tcggcgggtg ccgtcgaagg cacgaactgt 360  
 tagacaagtg gcctcagata tctta 385

<210> 12313



<211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12313

gcttctacat tcaatntcga gctnttcgaa tattacggga ctcaatcggg cttctctatt 60  
 atttagttat cgtagtttga atttgctcag ggcttcggta ttccatttcg agcgtctcga 120  
 tatattacgg gactcaatcg gacatcagag taaaaagtta ttgttggttg aatttgctca 180  
 gagcttctgt attccatttc gagcatctcg atatattacg ggactcaatc agacatcgga 240  
 gtaaaaagtt attgtagttt caatatgctc agggcttcgg tattccattt cgagcgtctc 300  
 gatgtattac gggactcaat cacacatccg agtaaaaagg tattgtcgtt tgaagttgct 360  
 cagagcttct acattcaatt tcgagctggt cgatatatta cgggactcaa tcagaca 417

<210> 12314  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<400> 12314

agcttctaga ttagtgtacc aaatgaccgc ggctccagcc aagctatctt ggaaaaagtg 60  
 cattaacaac ttttcatccc tagaatacgc ccccatcttg cgacaataca tattgagatg 120  
 gttcttagga caagtcatcc ctttgtactt gtcgaaatca ggtacctga attttggggg 180  
 gatgacgatg tccggtacca ggcaaagatc cgccatgtcc gtgaacagat agtcgccata 240  
 gccttcaaca actctcaatc actcctcgat gagatcgagg ttcttctttt cttccactgc 300  
 caggggtgag ccctctgtgg acaaaaatat tggccatgct g 341

<210> 12315  
 <211> 522  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12315

tagcgtgcac cctcactaag cgcgaagact cangttagc gtgaagaatg tccattanga 60  
 agcccanagg cgtgcttagc acgaagttag cgtgaaaagt aagctactct aggcctataa 120

aaggaataag aagcaaaagg agaagatacc actctggaga ctcagggttc tctaataaat 180  
 acataactaag tctgagcatc tctaataagg gaaatcctct atatatgtcc attggcccct 240  
 tctcctccta tatccatccc gcttcttcta tccacattag cccctaaatt gtaaagcctc 300  
 tcatgacaat gagaggctaa accccttttag ttagggactg acagggtctaa aaagtcacaa 360  
 gatgtattat atgtttcata tctatcaatg caaacatgtg tattctttcc tattatcctt 420  
 ccttattcta attacatgta tcattcatcc ttgcattatc tntaggagtt aggtgctcga 480  
 aagaagataa tcattagtag aaatacaagg aagggttat at 522

<210> 12316  
 <211> 386  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12316

agcttcgact ttactcgaa ggtatctcct tgtcttggtt aattttcggt ttccgctagt 60  
 tgcagcatct tctggattgg aaatatcgct tgttgcgtat tctctttcac cgaacatgaa 120  
 acattaactg gtatagatta actatcttgc atcttattat gctttgcttg cgccattggt 180  
 gttaaaactc caatcatatt gtttaaactt tgaagactta ttanggatta aagattgact 240  
 atgaatttgg gccataaatt gtttcaaaga attactgagt gtcaaagttt aactgtaggg 300  
 tcaaaagttt tagtatgact ccctgatgct ttgtgattga atctggaaaa ctgatagctt 360  
 aacagtactt ctaaatttat acatca 386

<210> 12317  
 <211> 333  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12317

tgtccacata tactntgttg caacctaccc ttccggcgtgt atgtttacgc gagggctcac 60  
 aggtgcgtct tccatgacag gaanatgtgt ggagttgcca ccaacgttta ttccaggaaa 120  
 acgtcggaga aactggaaaa ggcattgtct acgaacttta agtttgaaag gttcgggagt 180  
 tgtatttacg cactgaggaag atattagcac cccacgcgtc cgtcacagag tacggcagcc 240

tttaaatcaag tgtgcaaata tgacttcaat ttgttatatc ttcccttntt tacgctntgt 300  
atgtctatgt atgcctttta tattctttat ctt 333

<210> 12318  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12318

agcttttgtt cctttntata aaaagagaag ttctgaaact catcacgttg tctaaaaagg 60  
ccttgaggtg gatccaagtg ctataatcat tcattagcat attcatgttt tgggtggcata 120  
ctcaccactg ttgttttctt tagggaactc accataacta aaaaagcgca aaggcacccc 180  
tataacaccc ctatcggcct taaaagatca aatggcttct atcacagagg ccatgctaaa 240  
gattcaataa actatagaag ataatgctac agcggtcgct tccaatacgg ctagggaagc 300  
agaatcgggtg ctacaacccg caataaactt gggccgagat gganacgca cgggtttcaa 360  
tcggaggtat aatcctcaag ctacccttat ggtt 394

<210> 12319  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12319

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gaaccttgagg acgtcaggtg gngtgctatt gcccanaacc aagcttgacc aatcccgacc 120  
caacccgggc atagtcggtc agtgagaacc tgtgatgtac ctaagcaggc gagctcctgg 180  
cagtcaacag ataaaaggaa aacaagacca caaagcaagg aggcttgtgg tggctggcca 240  
gctgtgaaaa ttgattgata tgtgagatat ggtctctggt aatcgattac caaggggtggg 300  
taatcgatta caaggcttan aaatgaagac agggagctaa gatgggtctct ggtaatcgat 360  
taccagggga tgtaatcgat taccaggctt 390

<210> 12320  
<211> 391  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12320

agcttgaata agcgatctaa gtatttaata atatttagaa tatgttttga attccatcta 60  
ttaattaata gtaataatgt tgaagtttaa atctgtatac gttataagtt aattaaaccc 120  
cattatcatt attgcaacga aaaagcatta attaaatgca tttattaggc ttaaacatta 180  
aatgttgtaa ttactaaaaa aactaagtat ttgttaaagt gttttcatat tgtcaaaggg 240  
atttaactta ggtaggtta agcgaacgaa ttattgtaaa tttttttatc ttttaattcct 300  
aagaacaaaa naattaatth tatattntaa aattntatta ttatcataac attgatggga 360  
aactaatata ttacttagac attntttatt a 391

<210> 12321

<211> 364

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12321

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agaaccttgg gacgtcagggt ggngtgctat tgcccanaac caagcttgac caatcccagc 120  
ccaacccggg catagtcagt cagtgagaac ctgtgatgta cctaaacagg cgagctcctg 180  
gcagtcaaca gataaaagga acaaagacca caaagcaagg aggcttggtg tggctggccc 240  
agctatgaat ttgtgtgata tatgggttgt ggcctctggt aatcgattac caaggggtgg 300  
taatcgatta caaggcttan aatgaagac aggaggctaa gatgggtctt ggtaatcgat 360  
tacc 364

<210> 12322

<211> 345

<212> DNA

<213> Glycine max

<400> 12322

agcttccact atatccaaga aattcaatth ccaaacatca tgaactaccc taaaccaaga 60  
aaacagggca gaggcagaaa actctgcca aaacatatth acatattaca gctttcctta 120

ctcaaatact ccagtaacat tctcttcatt ccgatttggt aaccgtagga tcgacttgaa 180  
aattttactg gagggtccta gtacataaat ctacattatg accggttgga tctgctagaa 240  
aatatccaga acccaatatg tactaccttt ccataacca acaatgcaca agcattttct 300  
acacatgaac aaaaattctg ctgcacaaat ttgacagcaa ttttc 345

<210> 12323  
<211> 415  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12323

ntgcagaatt ggtcttcgcc agtgaaagga tcaatgtggg ttctatanat tggcatnatt 60  
gatcatccta ctangacgac cgaganaatc tgggcaaata aagagggtga ggatgaggga 120  
gaaacccatg ctgtgactgc cattcctgta cggccaaatt tcccaccaac ccaacaatat 180  
ctttactcag ccaataacaa actttctcct taccaccac ccagttatcc acaaaggcca 240  
tcctaaatc taccacaaag tctgtctacc gcacttccaa tgacgaacac cacctttagc 300  
acaaaccana aacaccaacc aagaaagtga atttgagca nanagcctgt anggttcacc 360  
ccanattccg ttgtcatatg ctaaacttga tcccatatct acttgataat tcaat 415

<210> 12324  
<211> 385  
<212> DNA  
<213> Glycine max

<400> 12324

agtttaattg gttcaggccg gtttggacaa gtctacgaag gaatgctaca agataataca 60  
agagtagctg tgaaggatgat ggatacaacg catgggtgaga tttcaaggag ctttagaagg 120  
gaatatcaaa ttctgaaaaa gattaggcac agaaatttaa taaggatcat cacaatttgc 180  
tgtaggccag aatttaattgc ccttggtttt cccttgatgc caaatggtag ccttgagaag 240  
tacctatc caagccaaag gttggatgtg gctcaattgg taagaatctg cagtgatgta 300  
gccgatggaa tgtcctatct gcaccattac totccagtga aagtagtgca ttgagatctt 360  
aagccaagca atatactcct tgatg 385

<210> 12325  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12325

gctactccgc acaatgggtga cctcttggga atgaagcaac aattcctcct tctgatgtct 60  
 catggacact tatccttgat ccaagtacac tccatgcgaa aggtcggcca aaatcaacaa 120  
 ggataagcaa tgagatggat nggctcanac attctgagca ccgacaaaat tatagtagat 180  
 gtggaacaga aggacacaac aggcgtcgat gtccaatgca atctgaacgt ggaagttgta 240  
 aattaataga ttatgtatta agttgcgtct tcaatgcac gtagtatcca tgatcagtnt 300  
 gttttaaaat tatttattaa tatatt 326

<210> 12326  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12326

agttttatat actttccatt tttatataat aggactatga aagttttacc tgaaatgttg 60  
 aacatataac aaaaatattg ggatatattt tacacaaatc atgttggcca agcttcatgc 120  
 gtatgttttg tactattaag tcaatggcaa catcattatc tcctccactc gggatgataa 180  
 tatcagcata ctttttagtt ggcaatacaa aatcttcaaa acttggcttt acaaactctgg 240  
 aatactgaac aatcattntg tatttagtca aggaggactt taaacatttt taaacaaaaa 300  
 caactttgaa taagttatat gctgaaaaga aaagctacaa gaatcaataa aaaaatgttc 360  
 aactagggga ttgttagta 379

<210> 12327  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12327

tacccatcac atgtgtgact aggtggctgt cgtgtgatgg tgcacnaaca agttttccac 60

atccacaaag cgcgcataaa cccaccatcc nctgttgccc acctccaact gagctcacgt 120  
 actcccacgt agcccatatc ttcgtttctc tcaacaccgg gtcccatca atcctcccaa 180  
 gctttctca acatccaggt aaaacaacat tcaaaccgca caaactatca cagccaagaa 240  
 aacagggtaa aggcagaaaa ctctgccccaa aacaccaacc aaaatcacag ctnttctcac 300  
 ttatagacc cagtaacaat tccttcgttc ccgttcgtta actggtggat tgactcgaan 360  
 atttactgga agtcttagac ataacctaca ttttgaccgt ggatctgt 408

<210> 12328  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12328

tcaagctttc ataagtgaag ttaggtgcaa ccatctccct atgagtcctc tcacgaggtg 60  
 gagattgagc catgttctca gtatgaaaat tagcagtcaa atgctcaaaa tcataatgtt 120  
 cataatcacc agcaacagaa tgctcagaat acacgaaatg ctcagaatgc tcaaaatgca 180  
 cagaatgatc aagatgtaca ctatgcctaa ctaatctatg aaagggttcta tcaatttcag 240  
 gatcaaaggg ttgtaaatca cctagatttc ccctagtcac gcactatatg cagcaaatca 300  
 tgtatttctc anacaagcac taagggtaaa attaggggta aaactaaaac tataactcaaa 360  
 cgatatccan atgagctgan tatttgtgag caacacctt 399

<210> 12329  
 <211> 228  
 <212> DNA  
 <213> Glycine max

<400> 12329

gtcaacagaa tcgtgcttca aaagacgaat aactcacaag gatcagatgt agttcagcag 60  
 tttctaatta gggaaatcta ttttcttttt aactatataa ctcttatgtt ccaataagac 120  
 aagatactat acattgtcaa cacacacgaa ttccatagc ttcagctgtg tagtgaacta 180  
 taccagcgag cccgcactct gcaggacagc agaaacacaa catgaccc 228

<210> 12330  
 <211> 374

[illegible]

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gatatctta	agaaggggg	gttgaatta	agattattcc	aaactactt	ctcccatccc	aatataaaaa		120
actatttcac	tttttattca	agttatgaat	tcccttaaatg	acaatcttct	taaatattga			180
ttcaaataaa	acaatttgaa	tatgaatata	aagaaataat	aaataaagga	gattaagggga			240
agagaaagt	gcaaactcaga	tttatactgg	ttcgccacac	cccttggtgcc	tacgtccagt			300
ccccaagcaa	cccgcttgag	agttccacta	tcttggaat	tcccttttaca	agttctaaac			360
acacaaggac	aatc							374

tagtcccgct	gtcaagatga	tcattnggag	tccttctgtc	tcttgctttc	acattcaatc	60
ggcattttcca	ccaattaaat	gtcaatacaa	ctttccttca	tggngatcct	cacacagaat	120
tatacatgcc	acctnctcta	ngcttttagag	acattngatc	cgaggctagt	gtccaaactg	180
cagaaatccc	tttatgggtt	aaagcaggct	agttgtcaat	ggaatgacaa	gctatcctag	240
tctctcattg	gttctagtta	ttcttagttc	aagacagatt	atntcccatt	cactaagttg	300
aaactctaaa	gggtcgagct	tcgctgcaat	tctttactat	gt		342

<400> 12332

5204



aatttcgtaa cgatacttgt tttctttccg taatgttacg gaaccttgcg gattacataa 240  
 tcacccccctt ttgacttac ggaatgttac ggaacctcac taaatgtgca atgatgct 298

<210> 12333  
 <211> 468  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12333

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 ttggtttgaa gtcaaaagaa tcttgcttca naagacgaaa aactcanaag gatcagatgt 120  
 agttcagcag tttctaatta gggaaatcta tttttttttt aaatatataa cttttttgtt 180  
 cgaataaaac aagagaatat acattntcaa caaaaatgaa tttccatagc ttcagctntg 240  
 tagtaaaacta gagcagtgag cccgcactct gcaggacagc agaaacaaaa catgacccat 300  
 tttctttgaa atgcanaaag aaaaaaaaaat gcaacagtnn ttggcacatg taacctttga 360  
 gctntgaccg gagaaattac ttaatagacc ctatnntttg cttgtgtcac cccatanaat 420  
 aatgagcaag aatggattat gtcccttggt agtatttact ccaccata 468

<210> 12334  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12334

taaatactat gctatttcag agagattatg gaagtcaaact cctagtcgtc aagatatatg 60  
 tggatgatac catattcagt gctactaatg acttggtgtg cgaggattnt tccaaactta 120  
 tgcaggcaga gctcgcgatg agtataatgc gagaattgaa gatctttgtt ggacttcaaa 180  
 tcaggcatac aaactatggc atatacacac atcgaaccaa gtgcatgagg gaacttctga 240  
 agaagttgaa gatggatgat gaaaaccaa tgataacact tatgcatcca accactgtac 300  
 ttggactagg canagaatca tagcgggtgg atgaaaagac atacaaagaa atgataggat 360  
 atcttttgta tgtcattgag tccagacctg acattatggt cagtgtatgc ttct 414

<210> 12335

<211> 357  
 <212> DNA  
 <213> Glycine max

<400> 12335

agttttctaa tgagcttttg tccctggaat agagtctttc agttgtggga gtagttgacc 60  
 aattgtgtct tctatttttg gttgggtcgg gtttcattaa agtagagctt gaagcccttt 120  
 ttcttccttt catcatagat gggcagtcctt gggaaaactc tgtaggcac catcttgatg 180  
 tcagtgcac tactaatgtg gagtccaatg ggataagtag ttgcctagtc tagtacgtac 240  
 atttacttta agatgcatcc tatcatatta agatattgtt cggagggtat taggcaacca 300  
 agatgggagg tattgaatct ggtgcgaaga atttagatta gcaccttctt ggaccat 357

<210> 12336  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12336

actgaacata ttctcggatg aaatgatgat cgatgtctat gttctcgtat cgttcatgat 60  
 gagtanggtt ggaagcaaga catatagcag atttattatc acaaaatagc atcacagagg 120  
 gcacatcaac ttcaaagtaa agaagtaact agcttaacct aacaatttca ctagtaacag 180  
 aagacaacgc atgatattaa gcttcactgg atgattctga aacagtgagt tgcttcttag 240  
 aacgcctaga gagaaggggtg tctcccacat aaacacaaag gccagaagtg gatcttcttg 300  
 tatcaacaca gcgtggccaa tcagcatcag caaatgcagt gaagttgaca gagttgtgag 360  
 catggaagaa caaaccttgt tcaggagcag atctgatata ctacagacga atatgaacaa 420  
 catgtaggtg acgaactcta agtgctttca tatactgact taatcgatca c 471

<210> 12337  
 <211> 562  
 <212> DNA  
 <213> Glycine max

<400> 12337

taagctaacc tatacaatac gtcacatata cgataaggaa tatagggtaa tcatacacat 60  
 atttaactag acaaaggag atttgaattc gaaagccatc gacacatcat aggcgaatcc 120

gagctcagcg cccggtgata ctctaaagtc gaccagcacg cattcaagct tataaatgca 180  
 atagactctt gctcaatcga ttacttgata accgaacgac gtacagcccc ttggatagcg 240  
 aaacccgaaa taaaaggagc aaatgcttgc taccctaaca attacattgt cattaacaaa 300  
 cgacatgcag ctgaccaaga tagaatcatt tgccaaccaa gcgataattg tgagtaccat 360  
 ctaatctatc ctacaccaac ataagaatat cagttaatgt tgaaacgata gaacaaaaga 420  
 taactcaatg aatccctaata gcaatgagat tcgacatctc gccactattg acgattcatt 480  
 aacatgctct tttttgcta agaaacccca catcacacac gttgcagtcc ctgaagagta 540  
 caacatcgag ctgaaatggc tc 562

<210> 12338  
 <211> 489  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12338

tatgcgcata cttcttcacg aacgttcact tgcacaagac attcttataa ctattataaa 60  
 tgcaccata tacaatcaag gcaccttcgt tacctagatt atttacatgt acttccaagg 120  
 tgtatttggtt accttcacac cacacatttc ctttgctaga ttcacatata tgcatactct 180  
 aaacactttg gctatcaaaa attgcatacg cgcacatctt ggtatttcta atacctatac 240  
 atacacaaac ttcatgatga atcttgacta tctacacaat aagggtgctac atttcatgct 300  
 ctccccctta tttnttcaag tgttggtact acctagagcc gcatgcaaata tcaagtatat 360  
 tctcttttagc tcactaaaat tgtattcaaa ttaagaggta gttccgtaat gtatcttctc 420  
 tacataacat gcaacatatc tatagattgt tgtgagacat cttgactacc agaagtatat 480  
 gtcatacat 489

<210> 12339  
 <211> 311  
 <212> DNA  
 <213> Glycine max  
 <400> 12339

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tcactgtggc tgcttaagat ataacaaatg tctggatgaa tactttatcc tattgtggcc 120  
cacatggagt atccagacgc ccatatctac tgagacaatg gtgactgccc tgatcattcc 180  
gctcactatg gtgtaaaatt actctattat agtggacgat acactttgta taaacatgag 240  
gtgtacaagg ggagatactt ggcattgctt ggacatttag ataaaggatga cctttgtcat 300  
ttgtatggac a 311

<210> 12340  
<211> 349  
<212> DNA  
<213> Glycine max

<400> 12340

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caccagtgtc gtgctcttga ttatatattt gggctctaga cccttgaatt gtaagtcaca 180  
ttggaatgac ttgctcttta ctcaacaggc agctgctcaa tcggcacaca gtgctgacct 240  
tttctggagc cttgcctcag tgcttttgag tctcgcatgt tattttgctt acaggctaaa 300  
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<210> 12341  
<211> 382  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12341

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gttttaataa agtgaaacaa aatctagtgc gaatcaaac tccgacatct atcatgggtt 180  
gaatggatga atgcataaag aaatgcatat gatacagatg caatttatga atacgggagc 240  
ccgggaaatt gtctccttct tagatacaac gtcttggggg agcacagtgc ccaacgtatg 300  
tatttaagaa agtgacacgg accctccgtt ggnttgccaa agagaggnga tcaagacaga 360  
acccatgcat gatgcatatg tg 382

<210> 12342  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12342

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 gttctggaga tgttcttaat aaattntatt tagtaacagt gaagcgaatg tgatcctttt 180  
 acccactggg atttgtttac atgatttgaa taaaatgggt ttaattaaat tctggatttt 240  
 tatatatctt tcttatttat atgtatctcg gcgtagaggg tgtcacactc agtgctcgcg 300  
 tgaccctgtt cacctgtccc tateccctgtt gctgtgcttg ctcaactgct ctactcagag 360  
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<210> 12343  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12343

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 aagctcacc ctatgccaaa aaaaacatga aaatacaaga aaaagccctt actacaaaga 180  
 ctactcaaaa tgccccaaaa tacaaggcta aaacctata ctactagaat ggccaaaata 240  
 caaggcctaa acgaaggaaa aacctattct aatatttaca aagataagcg ggctcatatt 300  
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 gctcta 366

<210> 12344  
 <211> 491  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12344

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 agtgaaagta gttntctctt ggtctttaag atctactaca anttggttat agccgaaata 180  
 accatctaag aagcaataat aagcttgtag ggccagccgc tctaacatct aatccatgaa 240  
 aggaagggga aagtgatcca tccttggtgc cttgttaaga attttataat ctatgtacat 300  
 tctccatccg gtcattgttg ttgtgcgaat taattcattt ttctcattct taacaattgt 360  
 catgccaccc ttcttcagat ccacttgac tcaactaacc catgcactat ccanaattgn 420  
 gtangtcatt ctagcttcta gaagtttana acctctttcc ttacccttn cttcatcaca 480  
 agaatcaatc t 491

<210> 12345  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<400> 12345

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 tttgggtcgg aacgacgaca gcatggtgag cttggtggag tccaaagaga accgcggaag 180  
 gttcgggcta ggatataagc ctacacgcac cgacgtgagg agaagtgctc tagaaaggag 240  
 gggtagaagc atggggccaac cgtgaggacc gcaagtgaaa gggattccct tacgtcacat 300  
 caatgaaagc ctcatcagcg tgggctggat gtgtgaaatg gcaatcgcca tgatccatga 360  
 tgaagtcctt aag 373

<210> 12346  
 <211> 528  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12346

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 aatatttatt gggtcaccat tgactntgtc aataatcttt tcatccaatt aatgacttag 180

tcaattcatg attgtgactc ccacacatta acttcaccat ccatcctttg cctccaacca 240  
 ctagtcttcc atgcggttta atggggcacc cacattntct actgccagtc attattctta 300  
 acaaatcttt cttcttgacc ctatactgac cactcctttc acaaccaatt aacacaaatg 360  
 acgtcctttc tctcatacca atatttgtgt ctgacctcac aattaccgtc acanaaccaa 420  
 tttcataagc aacagctcga gcccaattca naacatcatc acgggtagca nacatttaca 480  
 atgcaatcca nacatctnta gttnttaagg gacattcatt aacttact 528

<210> 12347  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<400> 12347

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 gcatcattgg cttcttgctt ggatcatgct tgtgcttcat ccatgtgttc agcttatcga 180  
 attggacatc cttactaaaa actattagat tcgctcttgg atctaagagt ttgtatgacc 240  
 ctatgggatt gtagccaaca aagatcatgt gttcactctt gtcatccaat ttcgcccttg 300  
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<210> 12348  
 <211> 175  
 <212> DNA  
 <213> Glycine max

<400> 12348

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 ttgatatcag ctcacgcgat ggcaaataga catgctatcg acttaatggt gaaca 175

<210> 12349  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12349

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aagccgaggg gcgtccgaaa tgtttccgta aggaatttcg cgaaggtttc gaccgttctt 180  
cgacgttctt cattcggttct tcacgttctt tcgatcttca acaggtaagt acctcgaacc 240  
aagcttttctg attcattcta tgtaccctg gtggccaca ttgtgttctg tgtattttta 300  
ttctcgtgtt atttactttg tataccccct ttgacgtgc ttagaccatt ttatttaagt 360  
catttctcgc ttanactaga aataaaat 388

<210> 12350

<211> 472

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12350

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tgtggaatat caactcattn taccttatca tcttctctg taagtactta tagagaagtt 180  
tatctagaga ggaccttgta cactttctaa tgtgtaatat aatcctttct ttgtgttcta 240  
agaaaataat aacaggggtct tgcagcggat aaaggtgaca tcgcaagagg cacagatttc 300  
actgcgacat tgcctctgcc tcacacaaca gctattgatt tcaggcanac ttccagaatg 360  
acatttctat ctattatcaa acataattng gtgtatntaa ttctgagcaa gactttgacg 420  
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<210> 12351

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12351

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caattttgtc acaatctctg gctcagtttt cggcgggtcat catccagttt ccagcaagtg 120



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<400>	12352
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<210>	12353
<211>	369
<212>	DNA
<213>	Glycine max

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ccaccgttct	tcatcgttct	tcggtcttca	accggtaagt	tcccgaaatc	gaactnttca	180
attcattcta	tgtaccttcg	gtggtcctca	tttgtttcgc	gtgctattat	tgttatttca	240
tttgctttcc	cgtaccact	ttgacgtgct	ttagtcattt	atttaagtta	ttttcccgcc	300
taatcaaaaa	taaaataaat	ttccaccgat	cattcatatt	gtgacatctt	ttaatntctg	360
gtaaaataa						369

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agcttctctt	tgtgtgagct	taactatgaa	aagggtatgt	gtatctaaac	tctagcttct	60
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agctacctat	tctataaata	gaaacatgtg	taacactcgt	tgtaactttg	atgaatgaga	180
gtcttgtag	acacaactca	aagtccaact	tctctccctt	tatcttccct	caatttcgtg	240
ctccccctc	tctctttctc	tccctctttc	ttttctctca	ttgtagcatc	ctctctaagc	300
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<223>      unsure at all n locations
<400>      12355
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atgatcaagt caataatatc aaggagggag cttttatgct ttcttcaaga aatgacaact 180  
cattttgtaa gtacaatggc cttcctaaag gtat 214

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<223>      unsure at all n locations
<400>      12356
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gaatttatgc ttcacttaac attaaagttaa ttactcatgt gagttcttga ttttaatccct   180
atttctctcc ccttttggca tcaacaaaaa gccaaagtgc gtaacaagta tgaaacatac   240

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aaatacaact aatcattcac acaacaatca tggaaaaata taaactaatc atgaagcaag 300  
 aaacatgacc aaatcanata ttatagaaaa tcacatagggc acataacata attcataatt 360  
 gttcaaacac accatg 376

<210> 12357  
 <211> 482  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12357

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 atgactgcc ttcatacatg gtcaaatttc ccatcagccc aacaatgtca ttactcagcc 180  
 aataacagtc cctctcacc aatcatccac aaaggccatc cctaaatcaa ccacaaagtt 240  
 tgtttaccgc acttccaatg acgaacacca ccttttagcac aaaccanaac accaaccaaa 300  
 aagcctgtag gattcacccc anattccggg gtcatatgct aacttgctcc catatctact 360  
 cgataattca atggtttcta taaccccagc caagggttgc tcaacctcca ttttctgagg 420  
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 ct 482

<210> 12358  
 <211> 392  
 <212> DNA  
 <213> Glycine max  
 <400> 12358

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 tcagatatgg atcatcatga agactaaaag gaaaaaagta attaaaaatt tgaagatttg 180  
 catgttcggg tgcccataga aaaaaagata catgaaaaag aaagatgtgt ttattaatta 240  
 aagaattgaa agcaactttg tgatgctaataaaaagtatc cctctggatg ttgattctgt 300  
 tgaatttaaa tataaaatcc ttatatgcat aaaaacttgg aacgtgtggg tggacttaat 360

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392

<210> 12359  
<211> 502  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12359

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gatttctttn tccttntca acatacactc gttgttgat aaaacaattt tctttatata 180  
cactcattgc tcacacacca gaatttcttt tcacacatta tttatacaca caaaatcttt 240  
tcatacactg tntatataca aaaactctnt tcttttcttt atataagata tgacatttgt 300  
tcacaacgcc tctntctttn tctattcttg gtgttatcat gatgtttgtt cgttntattn 360  
taggacgacg ttctaaatg aaaactctac acggttccgg aatttaacan acattatcga 420  
caataacgaa gtaagcacta nagcaacagt tcaacataat gtatgcacaa aacanatgac 480  
aatcaaaaca acataaaca ac 502

<210> 12360  
<211> 274  
<212> DNA  
<213> Glycine max  
  
<400> 12360

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cctttcgaag agttacatct gtagatgtat tcacaaacag tcaactggtaa tcgattacca 180  
tatcagtgtg gtcgattaca cagagctatt atgtgataag atgtgactct tcacatacga 240  
atttgaatct cagcgttcag aggtactggg aatc 274

<210> 12361  
<211> 153  
<212> DNA  
<213> Glycine max  
  
<400> 12361



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 tatgtggata tggatccgtg tgttatgtag tagtagctgg caatacgacc caagtcagtg 240  
 acctgaaaat atccactctt cctatcatac ttcaccaa attttctatc caagatgggt 300  
 gcagccgtat gaatctgcaa aatttcagca agatataaag atcanaatca gccataaat 360  
 aatataagac aggatgaaca ggcaagaaaa anattcaata ttgaatatca tcngaaattc 420  
 atttaagaaa aaatttgaag gagataaatc agactaccaa agaagaccaa gaacctatct 480  
 ctaa 484

<210> 12365  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12365

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 gatgtggaaa acttgttgtg caccatcgcc cgaccgccac ctagtaccac atgtgatggg 180  
 taccataaa tcctacaagc ttgagatgag gaagtgttga agggtgaaac ttctgcttt 240  
 tattgttgac cacagagtgg tacctggaga tatgtcgcg nggtcacgag atccttggga 300  
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<210> 12366  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12366

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 gtgcaagaca aatatcactt gcaataaaat aaatgagata aggggaagaga gaattgctac 360  
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 tattatgtaa tcttacagc 439

<210> 12367  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<400> 12367

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 aagggtctaaa caatccattg ctgaagaact ttccaccaa ctctcttgat gtaattacta 180  
 tcaactatcta ttaataatta ttattatggt cattgcctct ttccatgctt atttctatgt 240  
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<210> 12368  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 atatgtgcat gacatcatgc ccacaggacc tgaagctcct ccggagcatg ttatttttgg 180  
 tgtgaatgtt aaggcacaac atcaccaata ctgcaccaat actacagtat tgggtggcttt 240  
 aagggttagat catatcatta ttaatggcat tttttctcac tttnttctgg cttgttttct 300  
 gacttccaag ttctgacctg ctnttatnt attccaaact tcacttcttt tcaggtcagc 360  
 ccanataaca agttggtagc atacgccgaa gacaccaaag gagatgaaat atatactgta 420

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 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 tgtaaaatcc tgactagtca taggtcaatc cttgaggtaa acatgatgtt gttgaatagt 180  
 atgaaagcag ttggaatggg aacccccaaa attttttggtt ctattgcaaa tcaatgtgga 240  
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<210> 12370  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 ttggcaaacg aagctgtgca ttgtgcctt ccttactgct ttgcttaagg agcctaacat 180  
 gaaagggatc aacggatgtg cagcagacag acccatcaac tccatttctt tctaaagtta 240  
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 atgggttaatc caattaattg gactcttcaa tgtcaaacat cata 344

<210> 12371  
 <211> 378  
 <212> DNA  
 <213> Glycine max



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<210>	12372
<211>	408
<212>	DNA
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cagagcttga	aagatttcga	gtagtcgaag	agaagttcaa	gtccatagcc	atcanagtct	60
ganaagagta	tgatgaacta	agggacgtca	atatggccac	cgctgaagcc	ttggaacgag	120
aaaccaagaa	ggcccgaaag	gaagaacacg	tgccagcaaa	gttntgaggg	gctttatagg	180
gcagcaatag	taagctcaag	ctccgaagag	gtgaaaggaa	tcatcatggg	tcanaggcat	240
gatcttgaag	gacgagctaa	aggcttacct	taggtcgaaa	agaaatttat	cccaacagtt	300
aagcgagact	gaagggaata	tgtgggccgt	catcgatgag	tgcanagaga	agctaaatct	360
agcggcgact	cacgagcaaa	ggctagagga	tgagtacgcc	aagatatc		408

<210>	12373
<211>	403
<212>	DNA
<213>	Glycine max

ttgttttgct	cagcttctaa	cttctggacc	cttttaacag	tgcatcgctt	cgtgtgcatc	60
ttcaacacac	acacacacac	acatacacat	acacagccac	acacacacag	aaacacacac	120
acacacagaa	acaaacacgc	agacagacac	gacctgttag	ggcacacaca	cacgctgaga	180
aacacactca	cactgtcacg	gacagacacg	cacatacgca	taaacagaca	gacacacgca	240

cacacacaca cacacacaca caaaaacaca cgcacacaca gaaacaaaca cacacacaca 300  
 cacacacaga aacaaacaga cacacacaca caaacacaca cacacagaaa cacacacaca 360  
 cccacactgg gtttctgtgt gatagaagca ttataaatta acg 403

<210> 12374  
 <211> 231  
 <212> DNA  
 <213> Glycine max

<400> 12374  
 attgatgtgt gtgctattgt atgtcatgag atgaaatgca aaagttgaga ctcgtgttgg 60  
 ttgttgactg aagaattgcc ttacacactt gtgcttatga gtgaaatagt gaccgtgagg 120  
 atctggctag atgaaccttg atatctgtgt tgcttgctag cttatgtcac ttgtgttgct 180  
 taataaccat ggtcatatct ttgacattct gcatacttt atgaaaagct g 231

<210> 12375  
 <211> 554  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12375

ctggcgctca canttnggta gtcctgtat naaccanncc attagtnnan naaccgcgcg 60  
 cggctnttgc cgategatca tcaacgttct acgacgtatg tttatcttat tgacacaaga 120  
 caaccgcact tgagggtgcg ctcataatac aaccgactcc acctccacnn ccactagcca 180  
 taatcaacta ctggaacctc attatcgtgc gtacactaat attgataagt gcgttgaact 240  
 atcgccctaga tcacgaagta gtaattacga taacatccga tctcacagtg ttatagactg 300  
 atttgcacgc accaagcgca cgtagagttt gatatgtgga acacaacaat gtatccctta 360  
 tcaagacaca ctccccacgc tatcgaacta taccatacgc atgcatccat tctgattacg 420  
 ctataactta caacatcgct gatgcctgta ttatcgtagt ttcaatatga acgacgtgac 480  
 aacacacaga actcgtcaat atatgttaag aaatcgcgta tcaactctgca tgacgttggt 540  
 cagatacta atcc 554

<210> 12376

<211> 497  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12376

cggacctatg atactcagct tggatatctcc ttcttcacta catcaagaat caccgggtta 60  
 tgtcttctct gtggctgtct tactgggtta gctccatctt cttaaatttat tccgatgcata 120  
 catgtggatg ggctaatacc aggaatgtcc gccagggtcc agcctatagc cttcttatgc 180  
 ttcttgagaa ctgacaacaa cttctcttct tgctcatcag caagggaggc agatataatc 240  
 actggaaaac tcttgctatc atccaagtaa gcgtatttta natttgatgg caaaggcttc 300  
 aattctggtg tggtcggctg gacagtggta gaaggagatg gtttctcagc ctttacctca 360  
 taaagaaagt cagaggtatg tgtacttctt gaaacatggt tagtcctatc tgactctata 420  
 aaatcaatct caagaagtaa aacaccacca ccaggcattc atcaatatca ctctcagatt 480  
 actctcacat caaattc 497

<210> 12377  
 <211> 867  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12377

gccgtagnta ntcttacgaa cagactactc tgctcagcca ctagttagta tttgtcncgt 60  
 gntanttttg natttnntnn gctgantatt ancactgcgt actntcgtcc atgactntcn 120  
 tggtaacgac nnacngannt gttgcagacc ccgcttgnag tactcgtatg ntgcacatgc 180  
 gactcgnagt nactgctgc gacntattag ttgcaacacc antgcatctn tgatggacta 240  
 tgcacgggtg catcanttac tagctgggac angtagatca tttgctgatg cgcgctatat 300  
 agatgagcan cacntntagt agtgtacgaa catgtgatca ngngatcgct agatatacac 360  
 tctctcanan aggtatcaca gtgacgtagg catgataaat aatgcgtagc tatcgcnct 420  
 ctatatcgcg atatacgcta ctctagctca cagaacgacg cacttgtagc tctcgtaaag 480  
 atgtgacgct tggagcacac aacactacgc gcagacggac ttcattgctca gtgagacgac 540  
 atactcgaat cttgatgatc ggtgcgtcgc gactcgcctc tncattgtac tacttgacgc 600

ggaagacgca tctcgtatat gacgccgtac gtggatcacg agccagtatt cactacctca 660  
 caacgccgcc gcatactctgt gtcagaaatg ttatgtgtcc tattanactc acgaaggcgc 720  
 ctcccttgga aagtcatact atttatacat ctctcactcg gatagagcgc ctatcgtaca 780  
 tatctctagc tgtgatacac ctatacgct acgctacgcc acccgccctc ttcacgcgat 840  
 atgtcatata atatgacgac tgcggcc 867

<210> 12378  
 <211> 494  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12378

nttgaacttg aacacggaac accaatactc aggttgagga ttatggggta cccatcacat 60  
 gtggtactaa gtggctgtcg ggcgattgtg cacaacaagt tntccacatc cacaatgcgc 120  
 gcataaacc accatccct gtttgccacc tccaactgaa ctacgtact cccacgtagc 180  
 ccatattctc gtttttctaa caccgggtgc ccataaatc ttccaagctt tcacagcatc 240  
 caagcaaac gtcatttaaa cagcacaagc tategtaacc aagcaaaaca gagcaaagga 300  
 tgaaaactct tgtcaacaca ttaaccacaa tcacaagttt ttacttttaa gacacagaac 360  
 aattcttcga tccatttgta accgtggatc gactccaaat ttactggagt ctatatgcta 420  
 acccacattg gaccgtggaa ttatatcaaa tccaaactat tctgtctacc tttcacaaca 480  
 acaacacaag cttt 494

<210> 12379  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12379

tactcaagct nttatcattg cttagaatag gatagtacga tttcatacat tgtaatctct 60  
 ctgttgatga gtggccatt caaaagtgcc atatgtctat gggaaggata ttgcacttac 120  
 ggtgaacaac ggttgaacat atagtctttg gggttagctg gtctgggtatt agatgataaa 180  
 gaccatgtct cgcttcaatt ataccaatct tcatacgttt gttcgtatcc tgcaacatgc 240

atgaattgga agaaaatatc aatgcacagt cagtagatga cacgagtttt gaaatggaaa 300  
 taatattgaa agcgaatgtg ggtcttaata atacattaaa cagcggtata ttgggtgaga 360  
 ggtgtacgac ttcggaatga gtaacgtgga catgatggcc gttatgaagc tttactgtga 420  
 ctgggttgat gcattcatat g 441

<210> 12380  
 <211> 529  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12380

ttgacattgt agcctttgta ncnncncaen acttgacaca tanacgacgg aagcttactt 60  
 gatcgaaaat gcctaaatca tcgcgcatat atgcatgtta ttgatgaagc tacgcaagag 120  
 atccatcctg gccattgagc aaacgcacac aggtgctaaa cacaccacaa gattatgatg 180  
 atggatggct cgaatattca ctaaggtaaa cttatcacta tcgaaactat catgacatgt 240  
 taaggataaa caaggatatc agatacaata cgtcgagaga cttttatfff cagaacaatt 300  
 acccattttct tgaacatatc ttataactca aagacaaaaca tgcacatcta tcacaacgaa 360  
 acttacaata tttaactaaa acccaaccca actataaaat ctaactaatt tacaccacta 420  
 acaaagccaa acctaaaaca cactctcccc atacttaaac acgcattgtc ctactgtgc 480  
 ccaattaaca gataaatata ctattacctc anaagaagct gacactgtg 529

<210> 12381  
 <211> 841  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12381

agctcctact acagcanacc atnctgcgat gctatnaggg atactgtntg ntentcgcat 60  
 ataatnctgt ancgatactt actatactcc cnnaagaaac ganacangan nngnagtttg 120  
 gaaacccttt tgatnacnt tcgtgtagtc actcgncgga nacncatnag gacagactga 180  
 ngagcactnc tctgcacaca gtcgcatgtg caagaagtcg ccgacgagac gcactgtgat 240  
 gacggctncg aacgtctggg gaactgacgt cantcgact acacagccgc agattgcntg 300

tcantatccg tgcaggatag cgactcgtag aactcagctg cgcactctta tatcgcacca 360  
 tcganaaaca cacatagcgc gactattcac tggcgtgaca cgatcatctg tgtcatctca 420  
 tantacacat gtcgatggca cntcgcgcg c tctgtgaa ctacngatc actcgtgtat 480  
 gtntgtggac ntatgtcaca cacaatcgcg cgtgctatca cgttcgatgt cagccatca 540  
 tggtgagcgc tactacatga gtactgtgcg cgtgccacgc ggatatccac ctctgcgacg 600  
 atagggcgac gcacttcccg aacgacgatg ggtcgaggcg cctcaggnat acgtctgtct 660  
 gggaccatca cacatttgtc ggaacgaacc tatectattc gaattcgac ctaggggtga 720  
 agaagaatag taatctgttg tataggctct gaaatgcacg actgacacgc gaacatactc 780  
 ttacctaatg caaaagcctg actgccggca cgctcgacg gataagtgat ctccatcttc 840  
 c 841

<210> 12382  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12382

cttgaaaccc cttggatata cgcgacacta taggaatctc aagcttcac gggagcaact 60  
 cttattgatt atccgattaa ttaagattag ctaaattggac catatatcag tctagacagt 120  
 acacgaatat tctccctagg ctcgatgata agaaccgtac ctttagactg tgttactccg 180  
 cccactatct ctatctctca acttctagaa tctcgnacac ggtagagtat ttgcatgcta 240  
 cgaactttgt gattagagat agaataatta aacgactttt ggatagaatg ggcacacagg 300  
 tccctatctt tgcactggct tttaccgtct atctttatct gcaaattgtct catgagtgca 360  
 caaggacgtg tacacggtga cttctttct gaatatgacc caaatgaggg atctatatta 420  
 acaatctgtt aatagccttg ccn 443

<210> 12383  
 <211> 579  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12383

actactgatg tgctatcaca tcacatgtga gtatgtataa tttgttatat actantncnc 60  
acntactttc ncagaccagg acgatttgga nnccttgattc cctctgtaat acgtggaact 120  
catagaatac taagcctcta tataagctga accaatttat caataaacac atgttggtgtt 180  
atattcacia aattaaaggt tatctctttc ttcttagtga gagagaatct cctaaaatct 240  
tgagtaattc aagaacaccc tggctgtatc aaaggacttt cacaaccttt gtgtgggtgcc 300  
cttggcagaa agagtgagtc tttcctttct ttcattctca accttgttct tgtaaaccac 360  
aactcccgaa aatctacttt tgcccaaaat tattttgggg gcataactcc attttacccc 420  
tcaaattaag gatttggtgc ctaatggaat ttcaaacaaa cctttccctt gtttggaaac 480  
cccttattaa ccatgagctt gattatttcc atttattttt ggccgccccca cttacctatg 540  
tttacatcct taatcattat gcaaaccact tttaaaccg 579

<210> 12384  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12384

tagacataag ttatataatt gttcaaggaa atctgcagca gtgggtactt ctattgtaag 60  
ctaccacctc ctgagacacc ttttccttgt tacctatcag caccatagtt gacatttaac 120  
ttttttctag tgctcaatgc aactccaaa ttataaactc attcaagtta aatgttattg 180  
gttggtgagca atgctgtcaa atgggtggcac catggccaaa tgggtgtggag gcttctttgc 240  
taccacacct ccaaaggaag attgtgaatg gaagcctgct atggcgggcac catatgcaac 300  
aatggcatgt ntatatggca aaatttctgc cttctgccat ctgccattga taacattggt 360  
gttgagatac atacaacaga agctcctatg ttatatt 397

<210> 12385  
<211> 538  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12385

nttgacnccc ttgnaaccta gatgacgctc tctatgtacg cgacactata caatgctcca 60

gcttgcttgt gtggcttcta tggaggcttg atctttgagc tgcttgaggc cctggttatgg 120  
 cgagtatgca ccatggatat gcatcggaag acctacgata atacgagaga ggacgcgccc 180  
 tccactttgc aataagccat ggaagaagaa tctccaccac cactgatgagc cttggataac 240  
 tagcttggat aggaggcttc gatgtaggaa tacacagaag gagagatgga gagagggtgtg 300  
 agcacgacat tgatggatga tatagggagc gaagacgaac tttgagttgt gtctctgaag 360  
 actctcattc atcaaacgta cagcatgttg tacacgtgct tctatttatg gactaggtat 420  
 gctacttgag aggcctttctt aagaagactt ccttgacaag ctgtgttgag acaactgtct 480  
 ctcgaagata gatcttagct actcacacgc gtctatactg acgtcacctc cttgagat 538

<210> 12386  
 <211> 527  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12386

cgtacacact ttgaaacctt ctgtatttga ctacactcgt ctattccgtg acactatata 60  
 gtactcacgc ctccgatgat gaatcaaggc gcttcttggt tntctgatgg ttgcacagat 120  
 gatgactgag agcctcagag aatgagtttc agattgagtc agcgcgttca ggatcaagtt 180  
 atatttcgtg tttcttgacg agaaatcatg aatatgtaag aatcgggaga agtttgctgt 240  
 caagattctc gagaagatga gtttcagatt cttgagaaga gatcgagaag acttcacaat 300  
 ggaagtattc gatatatattt tccaagaaca aacgtagcat agctttgtct ctcataagag 360  
 tattgtcaa gatctctcta gttaccagag tatgttctct ctagtaatcc gctacagttt 420  
 cccattatcg ataccgcgg ccatgttagt tgcggcgctt ttctgaatt gcgcgtccat 480  
 ttgttttaaa ggtgtgggat acatatatgt gacgatacta aagaccn 527

<210> 12387  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12387

ctggaactac ttcacatgga cttgatggng cctatgcaag ttgaaagcct tggaggaaag 60



aggtatgcct atgttgttgt ggatgatttc tccagattta cctgngtcaa ctntatcaga 120  
gagaaatcag aaacctttga agtattcaaa gagttgagtc taagacttca aagagaaaag 180  
gatttgttca tcaagagaat caggagtgcac catggcagag aatttgaaaa cagcagggttc 240  
actgaattct gcacatctga aggcattcact catgagttct ctgcagccat tacaccacaa 300  
cagaatggca tagttgaaag gaaaaacagg actc 334

<210> 12388  
<211> 316  
<212> DNA  
<213> Glycine max

<400> 12388

ggatatccat ctaaattccag agcatgcacc aaaatcatat tcaaacgcat atccggcaca 60  
tggtgcatgc cttcaatct tagtgtgcca ccattattgg tttgaatgca cacatcacca 120  
atcccaacaa tgtttgtaat gctactattg accatgttca cttttccaaa gtctcctgct 180  
ttatacgtag taaagaattc cttgttgga gtggcatgat aagatgatgt tgagtcaatg 240  
accattcaa cacatgaata tgaaacacgg cactattcat cttccacaga gatcctgtgg 300  
gtacaagtgt gaagtg 316

<210> 12389  
<211> 467  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12389

cattgcctaa caagccaact tacaacagcc agccccaaga gtctcagcat aatgatgcac 60  
aggtaaagt tgagtatgtg aaaagattgt atgaccaagt gaaggtgcaa attgcaaaga 120  
agaatgaaag ttatactaag ccagcccaca agaaaaggaa ggaagtggta cttgaacccg 180  
gtgatgatcc tggacatttg angacaaatg ttttccaaga aggaggggaat gatgagaatc 240  
atgaaacaag cgcaatacag tctaaaggcc caagtggaga aagacaaaac ccccgagtgg 300  
agaaagatga aggccaagt ggagaaggat gaaggccana ngcagagaca ctatcaagac 360  
tataattngt gctgaaggcc aaactaattt gaggcccaag taaataagtt tantataatt 420  
atattattta tagatttgat acanatagat tgattgatng atacaac 467

<210> 12390  
 <211> 501  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12390

nttgaaactt ggtacatgcg aactatngat actcagccta tctggagact cgctagcaca 60  
 cttgcgggac caagcgtggtt attctgtgaa gatgaacatt catcctcttg ctgaactacc 120  
 tgtggctaaa cgacgctgga ttggctagcc cagggtgactt aaacatttta tttatgtgat 180  
 agtccggcgc tcaactgaac attcttgagc caagcacaat tggttgcggc atacgctgag 240  
 cttaactcca taacttaatg aaatntttgc tgagtttaat ggccgtttag gcaacttatt 300  
 cttgggttag cttcaattca tgccggttac cttaacacta tgcttattag gaacctatga 360  
 agagaaccat gctttctcta cttgttttac acagatntct tttgatgatt tctttctttg 420  
 ttctagatag ggaatacatg ttataaccac agtatatttc atccagatgc gatttatcta 480  
 atagctgcag atacacaagt g 501

<210> 12391  
 <211> 483  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12391

ntcataagtg aaatcaggtg cagccatctc cctaagattc ctaacacgag gtggatgttg 60  
 agccatgttc tcagcatgaa aattaacagc cgaatgctca aaatcagaat attcagaatc 120  
 actagcaaca aaatactcag aatgctcaaa atgctcaaaa tgcgtagaat gatcaggatg 180  
 cacactatgc ctaactaatc tatgaaaggt tctatctatt tcaggatcaa agggttgtaa 240  
 gtcacgtgga ttgcccttag tcatgacta tatgcagcag ataatgtgtt ctcaaacaag 300  
 cacctgacaa ggtggtaaaa ctacaactat agtcaaacga tatccaaagg agctgaaatt 360  
 ctgtcagcaa cacccttaaa tcatgaaaag atagcacaaa aaatttcata caataattca 420  
 aagtctaact atgaggacta cctaagcata ggtagaaca atacgacaat aatacttgaa 480  
 aaa 483

<210> 12392  
 <211> 528  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12392

ttgaacctga gatctgtgaa tacggacact taactattaa cctcgggtcc cttaaagtga 60  
 cgacatgact aatattttcta tattattgat gggcatatca tctttgogat gcactcttgc 120  
 atgtgatgta ngaccgttca tctactttg tgcgtgtctt aaatctgtct tccctattct 180  
 ttaactaagg atcctaccgt attcaccaat cctcaggatt gtcaaacactc ataacgtaat 240  
 ttattcgacg attacactga caactattgg cccatgtttg ccacactatc ggctgcatac 300  
 agtgccactc tagccgtgaa ctgcacactg agatgctncc gcctcagacg ccatcggata 360  
 ttatgaatga gaataagctc ctgacactcc tagtaaaggg ggacttgcca agacacggtg 420  
 ctctgtgtgt tccacgaggc gcaccggcat tctagacttg cctgcgtat gcttgtgacg 480  
 gcttaccatt gccgacttaa tcgtccgaag aaaagccgac ttctctcg 528

<210> 12393  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12393

ntcataagtg anacaggtg cagccatctc cctaagattc ctaacacgag gtggaggttg 60  
 agccatgttc tcagcatgaa aattaacagc cgaatgtca aaatcagaat attcagaatc 120  
 actagcaaca aaatactcag aatgctcaaa atgctcaaaa tgcgtagaat gatcaggatg 180  
 cacactatgc ctaactaatc tatgaaaggc tctatctatt tcaggatcaa aggggttgtaa 240  
 gtcacgtgga ttgcccctag tcatgcacta tatgcagcaa ataatgtgtt ctcaaacaag 300  
 cacctgacaa ggnnggtaaaa ctacaactat agtcaaacga tatccaaagg agctgaaatt 360  
 ntgtcagcaa caccctataa tcatgaaaag atagcacana annattcana caaaaattca 420  
 nagtctaact atg 433

<210> 12394  
 <211> 216  
 <212> DNA  
 <213> Glycine max

<400> 12394

agccatgttc tcagcatgaa aattaacagc cgaatgctca gcatcagaat attcagaatc 60  
 actatcaaca taatactcac aatgctcaaa atgctcaaaa tgcctataat gatcacgatg 120  
 cacactatgc ctaactaatc tatgaaaggc tctatctatt tcaggatcaa aaggttgtaa 180  
 gtcacgtgga ttgcccctag tcatgcacta tatgca 216

<210> 12395  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<400> 12395

tgtcttattc aatgggagtg acaagaatat cttcagactg atcaacacat gcacagtggc 60  
 cacagatgcc tgggagatcc tgaaaaccac tcatgaaaga acctccaaag tgaagatgtc 120  
 cagatggcaa ctattgggca caaacatcga aaatcttaag atgaaggagg aagagtgtat 180  
 tcatgacttc cacatgaaca ttcttgaaat tgccaatgct tgcaactggc tgggagaaaag 240  
 aatgacagat gaaaagctgg tgagaaagat cctcagatct ttgcctaaga gatctgacat 300  
 gaaagtcact gcaatagatg aggcccatga catttgccac atga 344

<210> 12396  
 <211> 117  
 <212> DNA  
 <213> Glycine max

<400> 12396

tgtatcagcg tctagacctg accctgtccc tcttggtatc tatggagtgc aggaacctgc 60  
 aggaattatt cgtgacctga gacctgcac acaaataggg aacagacttc tccttaa 117

<210> 12397  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12397

tgtcaagatc catcctcttc tctggtgtct ttatgtcatc aattctggat gaatgagatc 60  
acatatattc tgtacgacaa caccatgtga catattgtat gaccttatgc tccataggac 120  
ctctgactct tatcttatac actaattggt gaagtaccca acagttngat acatatectt 180  
tcatctatat atattgatgg ctgccagaac ttacgaccga atcgtgcatg tcttgagata 240  
tgtgatattc atacactgtc atgttatatt cgcttagttt tcttattatc tgtcttggtt 300  
cagtgtgca agtcatct 318

<210> 12398

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12398

cttatgacgg atntgcgaga ggccaaattg tctcgaaacc aatttaagct ggtatccaac 60  
caggcctaaa tagttcgatt gaacacctgt acgacaagac aggatctgtg gattcaagta 120  
aaatgaccat atttcgctca cttcttcttc attgtctgga tgcacaacag gaaaatagtc 180  
agtgaaccag gccggggccga cctctcgact aatgaatgga gcatgttggg gaagaaactt 240  
gtcaaagctc agaaaaatct tcatgtactt gaggaaaagc ttttgtggat attgatcgaa 300  
agtcttgggt gttaatcgaa gtgctctctg gccttcgac gagcgatngg caacttcttc 360  
agcataatct tgcgtgatta ttaatcccat tctctgttcg aaagtgccgt taagccacaa 420  
ctggag 426

<210> 12399

<211> 264

<212> DNA

<213> Glycine max

<400> 12399

tatcatgaaa ctaccctaaa ccaagaaaac agggtagagg cagaaaactc tgcccaaac 60  
acattcacat atcacaactt tccttactca tataccccag taacattctc ttcatccga 120  
ttcgttaacc attggatcga cttggaaatt ttactggagg ttcccagtac ataaatctaa 180  
attttgaccg gtgggatcta ctagaaaatg cctggaaccc gatatgtact actcttccca 240

tgactagcaa tgcacaagca tttt

264

<210> 12400  
<211> 285  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12400

ttcattttta attataatgc tagttttatg gggaacgtat tttatgtaaa atatgtaata 60  
acatatgttg atattggaac tgggtgttttg ctgaagaatt tgtagtacga agaaatttgt 120  
tgctactgtc agttacccat ttttaattaaa tataatttgt tgctgaaatt tgcgatttaa 180  
tcaattcacc taaaccagn tcaattaaat ataattttta tttattaaat aaaatttggg 240  
gggtgtatagc caattgaatt aaatataatt ttattgggtat ttatt 285

<210> 12401  
<211> 565  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12401

ttctcacctc tttatgctta tgtctacttg tctccgtatg tacantatnn cctctgatcc 60  
taccgcccac gacccttgga cttctgctc tcaatcacag cttattcttt gggagaccgt 120  
tccgactgca ccatacatat tgccctgaga agaaataaac atggcgcgag attgagccac 180  
tggagtatgc tattcagccc tgatggagct gaaccgaacc ttttctacta tcagaaggta 240  
aaatctatcc atggattctt gtgccccgg tccaaagagt ttgccttaat tgttgcaaga 300  
cgactagcac aaaagaaggat gatgctttcc acgctggaac atctggtaat gaggggtcac 360  
atgctcttgg attctagcac ttcttcttat gcanataata aatctaacta ttgtttcaca 420  
agacgtttcc aaagaaccac cccttgatg ctcaattggg gatgttgggc catctcatga 480  
ttgaggttac agtgccctgga ttcttctaatt ttaaaaaaat ggatttctcc gggttagaag 540  
caacttttcc tctctgacca ctccg 565

<210> 12402  
<211> 605

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12402

ccgcttacag tgctgcacga tatatttact catgcagtca ctcgantatg cactgacttt 60  
 antnncaaa atcagaanan gaaagattgg gctttggtac gtcgtgaatc cagacacata 120  
 agcatgtgga cgctgactat tntagtctca cccgcttgtc atctatagat ggcttggtcg 180  
 atgacatgcg gagataccca agggatatccg tacctttgtc aactataggc aagcgagcct 240  
 gttgatcgag actatttttaa tctcaccact ttgacacccc gacccatgag ttatgtggca 300  
 tgccgagata ttcaacggtt attcgcacct tngtcaacta gaggcaagtg agcctcttga 360  
 cgagactatt ttagtgtcac acctttgtca tccagagacg gcaagtccga taacatgtca 420  
 agatacccaa ggggtttccg caccttttgt cagttagagg caagcgagcc tttgacctgc 480  
 taagaccaat gtggtcatct gcacccttcc cgaagatgta ggcatcttcc ggccgagacc 540  
 cacaacaaga tcaatttcct tttgtgacct atggggccgg agcacacata cacacataat 600  
 gggttg 605

<210> 12403  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<400> 12403  
 tgctcccaat tcttctctac ctttctctcc atcactgcct ctgtataaca tttactctct 60  
 ctttctcacc gtgccagaat cataccctca attcatcatt tgccacatat ccttctctatt 120  
 atgatcccca ttctctttgc taaccaattt cccaccatat atcattttaat gcaaatcctt 180  
 aatttttgta ttgcctcttg tgcccttcatt gttggcatta tgctcaaatt ttcttttgtc 240  
 cagagcccat ccatttcttt ttttctctca tctgaactac ttccatgcga cacgtgtatt 300  
 taccttgtag aagctctgta tattcatatt actttattat tgttgccaca tttcttgact 360  
 gcactgcaga tctacttttc ttgagccctt ataaattacc ctttccccca ttctttaatg 420  
 aatactatca cattcacatt cact 444

<210> 12404

<211> 281  
 <212> DNA  
 <213> Glycine max

<400> 12404

tacacaggct gaactttcca tgtaaaacca tgaataaatt caagacaata ttaactgaaa 60  
 gacctgtgaa gcacctttat cattgtccac agcaataacc tgaccaattc cttctacttt 120  
 acgagcatat ctgagagacc ttagcccaga agcagacaat gcctgtgtgc aggcaagaga 180  
 gcaattatat tacacacatg atacttgctc tggattcaat tgccataaaa tattaaattc 240  
 aatcaatatt gaatggacga caatgatgat gacatgaaac a 281

<210> 12405  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12405

ntaagatnta tctaacatag tattcaatcc cacttctagt gtgatatttg ntatttcaaa 60  
 ctgaacatag caaaataaaa acttgataag aaatgggcca caaaaattag ctcatatcaa 120  
 ggcattaaag atatgcaata aaatcataaa aaaacaataa aagacacatg acaaatatcc 180  
 caattcccgt ggggtattggc ccgaacccat cctgactttt acgaggagtn gcctgttttg 240  
 tcgagtatag gtatgggtat taccgaana atttaagcgt ggatggggat ggcgatggng 300  
 atgacgacgt gtatcaaatt atacttatag ccatacctgg ccaccattac atttttgtat 360  
 gaattttttg tcacaacata tatttacaga atatatcttg aatatttatt ggtatatttt 420  
 ttaataatta ataacacagt aaaagataat gaatcttatt ttatctt 467

<210> 12406  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<400> 12406

tcttacaaag catacggctt tctggatgta gatgatgata tctatacaga tggatcttat 60  
 atatctatat atctatagat agatatatag atagatatat atagatatag atcatacaat 120  
 gaagtaccgc acgagtgggt atataggaat ccaaactctgc cgaatcactc atgttatgat 180



cttctacatc ctaggtcttc cegttccttc atctggctta tgttcttcat gtagcattca 240  
gactgaatga ctctatgaaa ttacgtcgct acttccacat ggtacgggta acgtaggaga 300  
catctctatt ttccggggg gaatccttat attaccacag cttaactttc attcgctct 360  
gacatcacat gaaaggataa cccgcctccc tcttgaaatt taaacaaagg tgttcggtct 420  
gtcgtgttga acaatttgct ttcatat 447

<210> 12407  
<211> 369  
<212> DNA  
<213> Glycine max

<400> 12407

gacatggaaa tctacttcag aatatttggt gtcttggatt aaaggctgaa tgtggatatt 60  
cattcaaaga cttcagtatg acaaactgag ataattatgc attaattacc aatgctgaac 120  
ctagtgccat taaagagaaa aattgtgtaa ttttaaaaat attcccagaa tctacattct 180  
agaatcgttt ttactagttc ccattgactt tctatggagg gggggaatta agattctgag 240  
gggaagtttt ataactatgg ctcatcccg aatatctgcc acaatctata cttttacgaa 300  
cataattcca gaaaatgatc tcgggacaaa aaattactga ccagttagat attgggttta 360  
ccccccaac 369

<210> 12408  
<211> 204  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12408

tgcgtatgcg anacatgag caggcatctc catatgatct ctaacacgaa gtggacgatg 60  
agccatgtta ttgcatgaa ctttcacatg cgaacgctca caatcatatt attcgagatt 120  
cactttctct gctctactct gaatgctcac aatgctcaa atgcgtacaa tgatcangat 180  
gcacactact gcctcactaa tcta 204

<210> 12409  
<211> 469  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12409

taatgatgga atagctcttc ctactatatac actcagctgc atgggtaaata actttcattc 60  
acataatgat taggtgattg agactataca tattccaacg agtaaattta gatacacaag 120  
tcattntcac caattgtgct ctgatcatat tgcctttcct ctctgcatat gtttaggaga 180  
acttttecta cactttttaga tacataaaaa taacatataa aaacaacctt atcccactag 240  
gtaaggctgg ttacatagat tacacatgcc ataaaattaa tggttctgac tcctgagaaa 300  
tacagacaat ctatttaata agttgtcact actgatttac ctcatatac aaagttcaac 360  
actagtaaaa aaattggatg ttacagatcc tagcatttag ttgaccatat acaccanaca 420  
atttaaactt acaatactta cantgaagtt tatactctct acttctaaa 469

<210> 12410

<211> 256

<212> DNA

<213> Glycine max

<400> 12410

tgcaccccaa tateggtgtc tgatgctaac ttactcctat atctactcaa tagtgcaatc 60  
ataacctatg ccacggttcc tcaaccttca tttttctgag gatacaactt gaacgcaacg 120  
tgcttatcat ggaaggggtct catggcattc cattgagcat tgtatgacct tgaaacataa 180  
cgtgcataat ctaattgatg catgctgtct aaaatttgac gaggatcatc gcttgtgatt 240  
tgtgaattct gacatt 256

<210> 12411

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12411

cttctnctc ataaccttct ttntagtcta atcattactt gcaatgatca tatcatccac 60  
atagagtaag agtgtgaatt tcccatcatg cgagtgtttt atgaaaaagg tatgatcatt 120  
tgtagatgtg tgtaatacca cacttcagga tgctttatct ttaataaaga tatcatataa 180

ttaaggatac aatgaaagaa taaaaatccc taattcctag ttatacacct ttccatattt 240  
 ccctattttac atacaagaaa atcatatctt tacaataccc ctcaagttga agcatatatg 300  
 tcatacgaac ccaacttgtc acgaatgtag tcaacatgag aacccttgag agatntagtg 360  
 aacatgtcta ccacgtgggc tttggagcta acaaagtcag tg 402

<210> 12412  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12412

tctgatgcta tatccgttgg agtgtatatt tataatgtta atttaaacag acaaaaaaat 60  
 gagcttgaac ctgtgaacac anactactaa tacccttaga gtggcaccac actagcctta 120  
 cttttaaatt gcaaaggcca gttgacaccc cagtcttaac caaccgtaca cagtcttttag 180  
 gataaaattc accactgggtg aattcagtga gaggacatac tgtgatgtga ataattgggtt 240  
 attatattga ggaatttttt ttggcgagca tactacaaaa agtagtgatg gaaaacatac 300  
 cgtactgata gacttagggg tccaatttga aaagtaacat tctatgtatc aaggaaaaatg 360  
 ctcacagatg ctgatatggc aaatggtttt aacagcacat tatgtgtgct atttgacagt 420  
 gttttattat taaacttatg atgaccg 447

<210> 12413  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12413

acgatgatag cacttatcgc aacatgggtct gcttagcgca atcatcataa atcctaaaat 60  
 attntaacag ttgcaatgaa taggctaagt gcagtaagcg cgcttagcgc gctcatcgca 120  
 attcccaaaa ataaacacag gggttttcaa ccttttcagc tacattgccc ctaatgggct 180  
 tcaaaactac ctaaaagtct aaaataccta acctgacaac aactaactac gaaaaccata 240  
 aatgaactat cctaagggtt gaagcatgaa aagtaaaaat agaaatgtgc taacttactt 300  
 ggat 304

<210> 12414  
 <211> 307  
 <212> DNA  
 <213> Glycine max

<400> 12414

tctcgtagta cccctccacg tcattcccaa acaccgacgc gagccccatc ccgtgataac 60  
 cacgtgcttc ttcgggtect tctgccacta cggggcggac accttcggcg ccactgtggc 120  
 ggacacgaag aacacgcgct tcgcaaagga ggcgcatcgc ttggcggcgg cattgttggg 180  
 gccccgaaga gggccaagg gagaaccgcg gagggatgat atcatggaag gccagggtgt 240  
 tcgttagagc ctcgatggcg ccgccgcctc gcatgggtgt tcccgcggtg gtttgggggt 300  
 tggagat 307

<210> 12415  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12415

atactctcta ctcccttggt tctactccgt tctatacttg atctcataca ccnnccggnn 60  
 gngttttgtg ccccggtgtg ggagtgtaaa aaaacacagc tcgccgcggg gagactctag 120  
 agaccgcggg gccctctct atactcttat agagagccgt taacataacc gggcggcggt 180  
 ttacacagcg tggattggga aaaccggtgt taccacatta atgcctggag aaaatccctt 240  
 ttccctgggg ataacaagaa ggcccaccat tcccttccaa attggccacc tatgtgaatg 300  
 ggctatgcg gttttttcct tcccactgtg gtgtttacac ccatatgggc ctctctaaca 360  
 actgtctgtg gccgtattta gccagccgag acccgcacac ccgtgagcga accattgggg 420  
 gggtttaata tttttttaat gtttttttga attcacacct tacctctgct ttcttgtgct 480  
 tcccgaaca actacg 496

<210> 12416  
 <211> 580  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12416

atgaacctga gacgtgnact naccgccct tgtaactaac ccctctccgg ttaaggcgct 60  
atccgcatac ttatgaatct cccttgctgt caaacagAAC gacactccgt atgttaaaag 120  
attcctttca tatcgcggtg gagcaatttg ctcgagcact ttgggtggcg gcagtgttat 180  
gtccatagtc gctaagacaa tgtgaggcga tagttgttat tccccgttgt gctcatagta 240  
ccacaatagg ctgtgagtgt cgtcctttta ctacacanct tatgctctta accactgtca 300  
agattataca gcgccccctc atacatgtac ccacacagat attgagtcac tatgtntca 360  
ccatattcta tagccaccac anaggtatga ctcagacatg gctacgcatg gggaaanact 420  
tactacactc cttctggttn gtaatacgta acttgatgtg attgcgtaa gaataactca 480  
aatacgtatc taaatcgtgg ccaaaattgg gtctgggtga ggaaataaac gcaagatttg 540  
tgaatcctct cgttagaat gtagggggcg gtgtgaccgc 580

<210> 12417

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12417

agagaggaag cttcatggag gaagagaatg agagagcggg gtgagcgtgt ggcctaccgc 60  
ttagtggcgc accatgtctt ggcttggtga tacacactct cgactctatt atgttcttcc 120  
accactatac ataatctctt gcatggatcc ctcccaccta tatgaacagt ggaatactcc 180  
atattctctg ggcctcgact ctcagatctt atcttcttcc cgctgttga cccaccatcg 240  
agtctctttg cacttttatc caactcctat taaggcctta tggggaagca ttaaattcta 300  
tcaggctctc ttttttgctc ctactctaac tatttcttcc aacctacaga ctccttttaa 360  
atcccctctc ttaaactctc taacaagaca acttctgtcc ttactatttc ttccaatctg 420  
ttggcacccc acttctcttt gtcttcn 447

<210> 12418

<211> 508

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12418

ntgaaacctg atacgtcgca ttcgtgacta tgaccctagc tggccgtgtg gactacataa 60  
tatggttttg cttgaagtgt caaatctgac attgatgtgt caagtctcgt aatattatca 120  
tagaacaacg aaaagatagt gtcattatta taaccaagt catttacaca catgcataat 180  
acttaatcta gactcacacg atgttggaca aagtacataa atactctgtg tacatacaat 240  
atcttgacca tgtcataatg tgatattcaga ttaacattat tcaacgtaga gcagatgtgt 300  
aaaagaatta tcatgtctgt ttaactccac tacttggata gtaactataa tagatgaaat 360  
gtagctgtat tatcacatgg ataaacatgc atattaatga cttgaataag gataggctaa 420  
gatgangtgg acagaggtgg aaggggacagc ctagtttatg atagaatacg tatagataag 480  
aggatacggg ttgcgttgag tgactaag 508

<210> 12419

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12419

tggtacaact agtattcttt aatctaccaa atcactattg gttctaacac anataagaag 60  
atattattgg ttgattgcac aatgactaac actttatcag cttacagatg gataagtaat 120  
ttcaacactt agtcactttt ctcaagatga acaaagtatt ttgagagctt tgtaaactc 180  
tagaagaatt tccataaaga tgcctttacc caaagaatga aataatgagc gcttcaaact 240  
gagcttcata ttttcaaact tcttgggtata tataaaccct cttcaatcaa gtatatgttg 300  
gctctatacg gacatatttc ctctcttatg cttgagcttg aagaaaatgg cattggaggc 360  
attaatgcat gtacttttca tgctgagaaa cactcttctt gttggtgtgt tgacactcca 420  
caagaaacac ttctttttat 440

<210> 12420

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12420

tgagtcttag cataattgtc tcatgcgctn gctaattatt tattatgaaa ttgatgtgtt 60  
 attatgtctt gatcagagca tgtgatttgt gtgtaattgt attgatgatt gaaaagtgtg 120  
 attgatggat gaaaagtgaa ctttgaatga caaagtgatg gaattgctgt aattacgtgt 180  
 aagtaaattt tatttggttt atatgatatg tatacttagt tgtcttggtt ctctattagt 240  
 taggaatgtg ataactcact ccccggtgtg tgtttgtatt tggatcctgt gatgatcttg 300  
 aactttgtgt tcgngggagc agacgactag gtgaattgat ttaaggaacc ttgtgctgaa 360  
 ggacgtcgag acacaacgct ctaatangat gtggcattgn ggtataggat tntatattaa 420  
 ttgtatgaag tcttagacgg gcttggttaa accga 455

<210> 12421  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12421

tgttcccatc cagctgtcag attcttttcc acctttgaac gttcctctta ctgctaagtg 60  
 gcaccaaattg tctgcctttg tgtaagctct ttntctttct ttctttcttt aactaatta 120  
 acaatcctct tgtatggatc ttacgtacct attaaacact ggatttccaa atattctatg 180  
 gcgcggtacg ttcagttttc tttcttcttc ctgcatgtta atcaccaatt gttgccactc 240  
 tgtcatctat atcagtcact aattaatgct gtaattgggtg aatctatctc attagtcagg 300  
 ttattttattc gttggatcat taatcaaattg atttctgcat gtttaattagg atacttcttc 360  
 taacanacac ctttttatat atactcttga catgaagtca ctctgtgtcc ctattata 418

<210> 12422  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12422

tttggcttta cagctcactc cttgatacca ttgtattggg tgtatcttgg tngctgcatc 60  
 ttattacatt tgatatctat tttgcattgt gcataatcat attgtgtgtg aagaaaactt 120  
 ttaaattaga caaatttctt agaggtaaaa ctttctgttt aattgatata cctcattgaa 180

tccatacaat aagtgtctga agtttgtaag ttaagtcttg ataggttaat cattataata 240  
 tctctaataca ttactgttg ttgaacaaga tgattagat gagtcttctt aatcatacca 300  
 aggaataacg atactctctt tattgatgtt atggggacaa gatacttaat gatactagat 360  
 atcaatcatt acttgtcttg attgttcta 389

<210> 12423  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12423

aaggaatgtt ttgagagatg tccttgcaag cagccttct ttatgaattt aagagaaagt 60  
 ggtaatatgt ncattgttat tctttacatt tatgatttga cttttactgg cattgattat 120  
 aatatgttga aggagtttaa aatgcgtaac actgattttc ataattttga ttaagtgttt 180  
 taattagatt gcaagaatcc tctttccctt cctattgaag ttccattntc attttccttc 240  
 atagagcaca catgggggttc atganactgc tcatttcttg ggttttaatg tggtttctat 300  
 ttgttgatgg gttatgggtg gtgactttgt gtgtgatggg tgagtaatag tgggaaagct 360  
 ctcacttttg gacccaatcc ctctcattt 389

<210> 12424  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12424

tcaagattta gtcttcatgt tgttcatgtt gttctcccta tctctaacac tntgccctta 60  
 taccaccacc tntccatct tcaccaccac attctcaacc tccaacacca ctgcctgctc 120  
 aagattgact atgatgttcg tcattgtttt tatcttcaaa cctttttttg cttatgagaa 180  
 aatggggaga aataggaatt ntgattgtaa aagaactaat atttttaaat aaaagttggg 240  
 ttggaatatt ntcatatgat ctctcattag ttattaacta ttattattat gttgtcacat 300  
 atgtcatata taattntact gtcatatatt cttcccatga ttgaacttan ngggaagtta 360  
 acaacattac atttttttca ctttcttata actctaatta cttttataaa tcanaattta 420



tattggttgt catcat

436

<210> 12425  
<211> 403  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12425

ntgaaggggtg cgcagcccac catttttcat agtagagtat ctataatgtg tctaccatca 60  
cgatcatcgt ctccctttcc atcattgggg gtaccacctg ngccgccaga tccctccacc 120  
ttttgggcgt gttctttgaa agatccgtcc ccctttttgc aaatgttctg tagttgcac 180  
ctatccggaa ccatatcaaa attgtactga tactggctaa caaaggcaac cattaggtcc 240  
ttcctagaat ggactcggga agattccaag ttaatgtacc acgtaacagc taccctcagta 300  
agactttctt ggaaggaatg tattagcaat tcctcatctt ttgcgtattc ccccatcttc 360  
tgacaatata tctntagatg gttcttggga caagtagtcc cct 403

<210> 12426  
<211> 508  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12426

ntgaaacctg catcacggac acttaaaact cagcttaaca ttcaactgtg tgcgtctcga 60  
tgtattaccg gactctttct tactttctcc tttaaaggcc ttgacgggag aatcggctaa 120  
tagcttagac attcaactgt gagcgtcgcg ctatattaca ggactcgatc tgacattcga 180  
cttaaaagtt attgacgtta gaattggctc acatgttcaa aattcaatgt cgaggcagct 240  
cgttgtatta cgggactcaa tcagcattcc gagtactaag tatcgtcttt gaactgggca 300  
catggtcgaa ttcaatcttg agcggttgaa tatattaagg gacttcatca cacattcgat 360  
gtggaagcta ttgccgttta catgggcatg aggtcaacat ccatttccat ccgaccgact 420  
tattacggta cttaatcaca cattcgagta aaaatgattg ccgtgtgaat gagtcagatg 480  
ttgacatcat gcccaactcg cgtatatn 508

<210> 12427

<211> 243  
 <212> DNA  
 <213> Glycine max

<400> 12427

taagaagcag tgtgcattta ccgaagaagt atttccgtac gctgtgtacg gaataacttt 60  
 atctgtaaca agtcttttac agttacgaaa gaactctttc gtacaaaatg tactgaacac 120  
 gaacttcttc tgtatgtaac agatctacac ataatagcgg taaaatgcgt acctcttgcg 180  
 aaacaaaagt agctatggag ggcggccacc accattatct gacctgttcc aatgactac 240  
 etc 243

<210> 12428  
 <211> 650  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12428

cgtagctact ctcttccgcg tatagtgaac gcgtgcaatg atgagtattc aaatatacan 60  
 acttctattg gacgaanaga nngatttgaa ccttggtacn tcgcgaaccg tgaccacatg 120  
 aactggaac ttcgtctgga cgctgaacag gcaacgaact cctttttcta aaccatgcta 180  
 cgtgctcgcg accggtcctt atctttctta cgcaacttga gtccacctat tgctactccc 240  
 ataggagcat gagccgaata tttgtgtccg cgccatacgt ttacactctg ccgagcccgt 300  
 cttggctctc ttgtgtcaaa ggcgtcttgc gagtaatagc aattcttctg tcccgaatac 360  
 cacggcagca cgctactatt acgaacaggt gtgtatgcag gngcaactta gaactatccc 420  
 tctggcaagg attaagcctt tcactatctc tgctctatga gagctttgtg aattctatcg 480  
 tccacttggt ccgatgcttc aanaccattg tctttgctga cgaccgttta acatcgcgag 540  
 cgcactctaaa ccccggtttg aactttaacc cttcgcgac cccaccatga tgccttacca 600  
 atgccctaag cccttgatct tttgtaacgg gattcccacc ctccaggaccn 650

<210> 12429  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12429

tgtcagatga gagacaagag nnttgagaaa aagttatagc atcacatagt ctccctcaag 60  
agactccaac agagattgct cccagaaatg accacgagca actcgaagct gaagtgcaac 120  
ctgtagaaga agttggtatg tgtccttttc ctctaaaatt atgtgtttca atttgcaaaa 180  
tcaattctta cattttaatc taaatttcat tgactaatgt gtttggttatt tatgatcttg 240  
gtattcattt attgcttctt tgttttcgat attcagactt atatcanagt tattctatga 300  
gtgaggggga caacgatgat gatggtgatg aggatggnga tgaagatgac gatgangaag 360  
agtatgttaa tgtgatttgt catcaaaaat tctctagtca tttcaatg 408

<210> 12430

<211> 513

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12430

caacccaacc ccgcgacaac taaagggaag aaannaaaaa aaaagaaaga aatgacctga 60  
acccgcacac gcacaacaac acgagccaga aggacgcca acaggacgcg gctgtacatt 120  
caccacgaca aacacgaagg acaccgggaa cctacctcac acacacaaca aacagcaccc 180  
gcccgcacgc gcgcccgcagg gacacagcag ggaaacaacg acacggccag atcacacgaa 240  
ggcaagaaga cactcaccac accaaaatca cccacaacca ccacatcgca gaaagagggn 300  
cccacaaca atagcaaagc acaccacaac ccggcacgaa ccacaacgaa ggccaccaag 360  
aagaagcggc nnncatannc ataccatncc tcattcaacg aagtaaccac acccccccaa 420  
cacaccaaac gaaaaaaagc agcactaacc aacgcacacc tccgacaatg agcgccgacg 480  
aaccacaaga gaacccaaca ccccgaagca acc 513

<210> 12431

<211> 693

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12431

gggtcttgag agatgcgctg ctcgctgatg cgattacgaa agcttgtggt gttccantac 60

ntacaaaagt cataggacga gncgaacttt gggaccttga ataccgtcgc ccctccgag 120  
acaccacatn anactaatgc ttatgcacgc ccagttcgcg gcatcaaggc agcatgtatg 180  
catgcttaca actctgaaca tgcacggctg ggggtgattac tctancttgt gcgtgtcact 240  
catcgcgcat cacctgatag aagcgctcta ttccagagtg cngacagatc acaatnattg 300  
atgagcaggt cactgtatat ccacgaatat gtgtgagtag cgaagatcgg acgagacaat 360  
gggaacacaa tcgacacttc gttatcacgt catcgtcgcct ancgttcttg attggaatct 420  
ctctgtactg cacgcttcgc ttacgccgtc ttgtcttacc tttgtggtag gaagacacca 480  
agtatgagtt gtcacgacaa gctgactcta tccctcttag cgtcgatata tatatggtag 540  
tattagtagt gatataatcg aatgctagtg agtcgaccag atatctctct cacataatca 600  
aacctactca cctgcatcat aacttggttt cctgccacca tatcctctgc gtcgactgca 660  
ttgacaacca ccgtaccac cggtgtcatt ccg 693

<210> 12432  
<211> 553  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12432

ggcttacctc ctgctctccg cgacgtctca tctgcgttac tcgtcgtcaa attgagacga 60  
agtgaacttg aactgtcgcc tcggacacaa gaaactcaaa ctgtcgcaag agcgtcagct 120  
tggcancacc ttccgttctt tgagattaga tagtggacca catgctctc ctagtgggaa 180  
aagcccaact gaaaagccat ttttgttact gaatgagcgg acatgggtga taccacagag 240  
agactctttt gtgtgggact accagctgca ggtcctcaat atagatgggc gggagacaat 300  
cactatgacg ttggcacact caccacagag tgtgtctcaa atcaccactg ctgaataatt 360  
caccctgga tcaaactgag ttgtggatgg caaagtacta cacacgttac tattctaatt 420  
gtttggatgg attatcaaga agacatccag agatggagat aagtgattca cactctctgc 480  
tctggatatg acgaatatca tcatgcttct tagtgaagca ttgtgctcta tttgttagat 540  
attggagcag ccn 553

<210> 12433  
<211> 461

<212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12433

cttgataaac tgggtataatt aattttcaat attaaaagta tattttaatat ctagaataaa 60  
 aaataactta ccttgattnt ataaattcta taaaaataaa taaattattg ttatatatat 120  
 atatacactt ttttaaaagt ttaaataaat gcactctaaa tttctaatta gccttttagag 180  
 tgagctgagt atgaaagtaa aatatgtttc ttctaccaat gaggttcagt atccttaaag 240  
 ctgttgacag tctcatgatt tccccgcgtt tgaagatata tttctttgga aaaaacaaat 300  
 cttcttataa caatcgcggt atttatgcat gtgtttcata taatactact ataatatatt 360  
 tcttataata attgngatat aaatttagca ttcgagcaac tgcaatgtgc acaacctatt 420  
 atttangata aacaattact ttgtgtttca ataggaaatg a 461

<210> 12434  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 12434

cactgtatag actgctggtt ttatgtatta cagaccaagc gatgtgaagt gttaaccgcg 60  
 catattggta agactgacaa tctcttctct tctttttctt ctcatctctc tcagtcgaat 120  
 tcttcaactg aaaaataata ggaaaaattc cgtcaatata aatttgcaag gtagaagaga 180  
 atatataaaa aggttggtgc ttaacgatca gactcaccat aataacaaga atccggacaa 240  
 aaactgcgac caaatcggtg aacaagggtc aggcattgctg tacatagtcc agatcgccca 300  
 agtgtgccct ctcaacctat tcttgggtgt ctactacaat gtaacctaca aacaccaata 360  
 gcccaaagta caactgcaac acca 384

<210> 12435  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12435

actgatatgt cagatgaatt tgaatattac tntcatctca acagaggaca acgtcaatgg 60

ataataggtg tgcttttatt cttatgccga atataaatgt tattgctatt gtcaactgtt 120  
 tggctatcaa aatataaggt ttatttgatt cttaaagtaa tttctatgct tttgcttctc 180  
 acaccctctc ttttaatttg agtatatgca ttaattnttt attttttatt tttggtaatt 240  
 cttectgttc cttttcatca ttactcatca tgtgtttttg aattgatagg cgggacttaa 300  
 gtgtcattga cctctgattc tccatgtgga ctctcagagc aatggctctg aatcatcatg 360  
 aaacctgcat tggaaatcag cattgcctct tcaagtcgcc caataaacag actatgtggg 420  
 atggacctat ctttaaattt cg 442

<210> 12436  
 <211> 552  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12436

ctctgaaact cgtcttctta ctatcatgct ttacacatat atatacaaaa tgaagaanag 60  
 annnttganc cttgtnactc tngaactctcc aactcagctt tctttccttg cttacgaatg 120  
 ctgagtcttg caatactagt ttaacaggcc ccattttata ttagaaataa ttctgaaggc 180  
 atggatcaac caacctaatt aacttggata ggagacaaac aaccaatgtt ttacgatcca 240  
 caattgacca ctagatgctg catgtactgg taatcttaca gcccttggtg taacggtaag 300  
 cgtgctcact gctgttattc cttttttgaa gtggaataca atcattcctg ttgacctctc 360  
 cttttttcat ataaaatttg gatataaaag gaaaaaaagg accttacatg gcttaattgg 420  
 tcaaagaaag actactccaa taatgggttt ccatcatttg aatttgggga ccataaacct 480  
 ctctggctac caaataaaat tgaataaaga aaccccatga accattaaac cagagaccac 540  
 cttttttagt tg 552

<210> 12437  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12437

tagaatanat gtgaactgcg tacnctntgg taagaacctc cataagttga ctntgtgaag 60

gtgcatatgg agtacaaatc aagcagcaat tgagcttttc cttgataaaa tgtttgtaa 120  
 cttctacatg ctttggtcga gcatgctaaa caggattatg agctatgctg atagttgatt 180  
 tattatcaca gtatggtttc attgggtccat cccattcaat cttcaagttc tttatggaca 240  
 caccaaattg actttttaat cgttgagaag atattntaaa agacattgct ttcttcagat 300  
 ttttgtttaa gaacaaaacc caagtgatct gggtaaatc atcaataaaa gtcataaacc 360  
 agcaagcccc tgaatatttt gaataggaga tggccctcan acatcagtat gaacagaata 420  
 aagaggaaat atacttttc 439

<210> 12438  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<400> 12438  
 acagagtggg accttggaga tatgtcgcgg gggtaagag accttgggga cgtcaagtgg 60  
 ggtgctattg cccaaaacca aacttgacca atcccgaccc aacctatgca tagtcagtca 120  
 gtgagaacct gtgatgtacc taaacaggca agctcctggc agtcaacaga ttaaaggaac 180  
 aaagaccaca aagcatggag gcttgtgtgg tggtttggca gctgtgaatc ttgtgtgata 240  
 tatgggggtat 250

<210> 12439  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12439

tcatcaaaga ctatcaaaag tgcacaacca acacctaagc cataagcttt ataaaaaatt 60  
 gtcaaaagtg ccaagtctgc accaccacca agttcttaac cacaacctgt tacacatgtc 120  
 tttgaggatt agaaagttca ccaacttggg gagatttcaa gtgatgatga acattatggt 180  
 gtatgtgaca ttaattttgt tagtttatat ttgtaggga tttttttttt tgggagaggc 240  
 aataactaac aaaaaagtca agtgatttga aagatcaata cctgttacat gaatagcact 300  
 taaggggatc caaagtctga aaaagttaaa ctattactaa tgtaattcan aggaaaataa 360

tgcaatcgac aagattgact gaattatgtg cgagattggt tttctaacac aagcaacatc 420  
 tgatg 425

<210> 12440  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 12440

tgagggaaaa cttgatgcat tgggtcaacct agttactcag ctttccatga atcagaaaatt 60  
 tgcactctacg cctgttgcaa gagtatgtgg tctatgttct tctgcagatc accatacaga 120  
 tctctgtcct tctttgtagc aatctggagt caatgagcaa cctgaagctt atgctgcaaa 180  
 catttataat agaccctctc agtagcaaaa ccaacaacag tagaataatt atgatctttc 240  
 aagcaacaga tacaatccag gttggaggaa tcatccaaat ctgagatgga caagtcctcc 300  
 ataacaataa cagcatgtcc cttcctgtca gaatgctgct ggtcctagca agccatatgt 360  
 tcctcctcca atgcagcaac aac 383

<210> 12441  
 <211> 186  
 <212> DNA  
 <213> Glycine max

<400> 12441

gcggacagaa cccgctctga tgccaacttg aagctttgat attttaatga gtaaaaaagt 60  
 taactcactt agcttaattt tattgccttt aacacacatc catatataca caatacaaga 120  
 cttgatgaga aaacagcttg atgggacatc acaatgttgt cttctgaaac aaattaaaca 180  
 gaaaat 186

<210> 12442  
 <211> 64  
 <212> DNA  
 <213> Glycine max

<400> 12442

ttgagcctag atactgactc accatacacc ttgtatcccg gtgagaatgc gcatcgttac 60  
 cctc 64



<210> 12443  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12443

tcaacatcag accacttcca ggggtgctgga actacttcac atggatttga tggngcctat 60  
 gcaagttgaa agccttggag gaaagaggta tgcctatgtt gttgtggatg atttctccag 120  
 atttacctgn gtcaactnta tcagagagaa atcagaaacc tttgaagtat tcaaggagtt 180  
 gagtctaaga cttcaaagag aaaaagactg tgtaatcaag agaatcagga gtgaccatgg 240  
 cagagaattt gaaaacagca ggttcactga attctgcaca tctgaaggca tcaactcatga 300  
 gttctctgca gccattacac cacaacagaa tggcatagtt gagaggaata acaggacctt 360  
 gcaagaagct gctanggtca tgctccatgc caaagaactt ccctataatc tctgggctga 420  
 agccatgaac acagcatgct acatccacaa cagagtcaca ct 462

<210> 12444  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 12444

tgaaggacat gcacaaagtg tgactatatg atgtggcaat ggtgtgtatc aagcaaattgc 60  
 tcacctcccc cttaggctgg accaaacttt aattggggtg ggcttctccc aattcaatta 120  
 aatttatctc ccaacacaca tcaaataggg cacttaattgc atgtgaaatt acaaaaactac 180  
 ccctaattcca gaaactagtc taggtgccct ataatacaag agctaaaaaa tcctacatta 240  
 ctagggtacc ctccctacac tatggagccc taaatacaag tcccataaat aatgaaatcc 300  
 taatctaata tgtacaaaga taagtgtctc catacttagc ccatggaccc aatcttcttg 360  
 gagtcttcta tccaataccc tcgagggata gtgatgtagc tccatgtgga gcttgagaac 420  
 cttgatcttc ttcataatg ga 442

<210> 12445  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 12445

acaacaagtg gagcaatatac tgtgtctact acacgttgtc gttgaccact atcactaccc 60  
tccctacatg agagcctaga cgatgggact ctgacacttn cttggatgag tacaagaaca 120  
cgtctctgta cgtacatgct atcaacagat gaatggcctc atgaagatta cactgaagat 180  
gcattcatct ggatataaac tgcacaaggc actctacacg tgtatgcgga actgtatcag 240  
actaccaaga tgatactcgt gatggggagt ccattttcgc acgcatatat aggattacta 300  
cgatggacct tatccacgga tattacttga ccgccatagg atgaacaatt tgtgtcttgt 360  
taagccatga tagcatacgt attgctgttc acctcaatta cactacttga agaaccaaca 420  
ttcttttgtg cagcgcaata ttatg 445

<210> 12446  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12446

tctgggtggga catcttgact tgctgtccaa tctgacattc accacagatt ctgccttctt 60  
ctattttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcattgcctc 120  
ttaagtgcag atgtccaaat ctttgatgcc atattttgac ttcattcttct ttggagaata 180  
gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240  
tgctgccctt cattaagact tcactcttct catttgtcac caagcattct gactttgtga 300  
agtttacatt gaatccttca tcacacatac gactgatgct gatcaagttc gcagtcagtc 360  
ccttcaccag cagtactttg ttcagactan gaagtccatc atggactagc tttcccattc 420  
cagtgatc 428

<210> 12447  
<211> 317  
<212> DNA  
<213> Glycine max

<400> 12447

cgcttataa cggctcctctt tgcttatatt ggtaaataat gaccattcaa agcataaaat 60

caacatatataa atttatcgct ttgcaagaa ctacgtaggat atgattttct catcacaatt 120  
gaggatacgt aggagcaaaa gcccacttt tgtagaccac cccaagagat cgtaattat 180  
ccaacgcctt aacgcttctc tcatttcaaa aatcaagaga tcattaatgg tccaacgcct 240  
taatgtttct ctcttttcaa aaccaagaaa ttgttaatgg tccaaacgcc ttaacgtttc 300  
tctctttttc aaaaatc 317

<210> 12448  
<211> 509  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12448

ntgaacctct gcacattgaa ctatgatact cagctatcac tggagttgaa gagttttgtc 60  
attgccgaaa tcattcacta ccacagatgg cactttttcg cccttggtgtt aaatgtgtcc 120  
accggaggcg tcattcgctg gatgacctta tatcgcatct gatatgtgat ggctttaacc 180  
cgacgtacac caagtggata tggcatggtg agttggttgg tcatacagca acatgtccac 240  
cttatccggt tgatctacaa agcggagatc tcatggaaga catgattcgt gatcttgggc 300  
caaagggctt tcgggaatgt catgcagata ttacgatgc tcttcanaca gatgcgcata 360  
cgccatttgt tggatgatgc catagcttta ctatggtatc agctgtgcta acttttgcta 420  
acctacaagc tcgattcagg ttgagtgacc aaagctttac agagttgggt tgttatggaa 480  
atatgtttcc tgacataaca gcttaccgc 509

<210> 12449  
<211> 364  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12449

tttttttttt tatctggttt atttcttatt ttcattnttt ttatttatct catgaatctc 60  
tgcatcaaat caaattaaat taattttttt cttaatttat tattcaaat agtaatttct 120  
actttctatt caaatgttta ggtttcttcc atggatatta attatcttta aatattaatt 180  
tataaatcaa ttgatttata gttacaaatt acacttatta tatatatata tatatatata 240

tatatatata tatatatataa tttcatttat taatttatat atatatatat atatatatat 300  
 atatatatat atatcatagt aatacctggc cttaatttaa aaaatttatt ttcgcatctt 360  
 ttaa 364

<210> 12450  
 <211> 429  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12450

tcttttaccg taagagatgt gttccanatt atctagctat cacaatcatg ttgaaagcta 60  
 accaattgat tctgaacatg tacttcccaa tcagtggatga caaggggtgac agcattaaag 120  
 catcatacct ccatcatctg gatctattga agaagagtgc cgcagttgca gagatcacga 180  
 gaaagttctc aacaaatgag aacactntta cagtangagg gtcttttgct gttgaccctc 240  
 tgacacaggt canagcaagg ctcaacaatc atggaaagct cggggccctc ctgcagcacg 300  
 agatcatacc anagtcagtg tttactgttt ctggtgagat tgacaccaan ggccttgata 360  
 aaaatcccag gtttgattg caattgccct caaccttgag gttttattca tttttagaaa 420  
 gtgatcgag 429

<210> 12451  
 <211> 488  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12451

ctcaagctta tccatgatgt cttcatcaa ttctttcacc ttcaaacctt ctgttttttt 60  
 tntactaatg acaaaagggg gagaagttaa tgaaagaaat ttttttaagt aaacactagt 120  
 caatcaataa aataaggcgt tttgaaagat atatttgtgt ctacgggtac atccactcat 180  
 gcacatacat attatactta aggggagcta aaagctatca aagatagcat tctgatgcgt 240  
 agacattatt ctcatatata cttgctatat tctactactca caatttatac agcttgatcat 300  
 catcgaaaat tgggagattg ttagacacca gacgatccat cactagaaga cccaaccatc 360  
 ttttacgatc ttgatgagaa caaatatata atattatggt aaccactttg ttgcatgtga 420

gtcaacacgt ttgatgactg gaagctacac caggagaaac ctattcacta ctagataact 480  
cacctact 488

<210> 12452  
<211> 249  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12452

tatgcttggt tcctaataca aaaaattgaa accaattatt gtaaggatta atagaataaa 60  
aatgcataat cgtgataacc ataaccgaat gaaaaattct aaaagggtcat gagcttcact 120  
tctcgaaaaa actaanacaa ctttataagc attatagtca ccatttgga cacataaaaa 180  
aacacttagt aaggaaatca taaagcaacc tcgacattaa taaataggaa atataacttca 240  
caaatgat 249

<210> 12453  
<211> 428  
<212> DNA  
<213> Glycine max  
  
<400> 12453

gcacctctta atgaaattgt ttaagaaaa atgtgggggt taaatggggg agaaacaaga 60  
gcatgcattt actgcactca aaggaaaatt gactcatgta cctattcttg tattacctaa 120  
ttttacaaa tcttttgaaa ttgaatgtga tgcattcaat gtgggggataa gggctgtttt 180  
aatgcaagaa tgacatctca ttgcttattt tattgaaaaa ttgaatgagg gtgtgcttaa 240  
ttattctaca tatgacaaag agttttatgc attggttaagg gcattacaaa cttgacaaca 300  
ttaccttttg cctaaagtat ttgtcattca tagtgattat gagtccttga agccattaat 360  
acgacaagac aagctgagca agagatatgt caagtgggtt gagtttcttg ataatttcct 420  
acatgatc 428

<210> 12454  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12454

cgtcatttaa gagcttcaca tatatttggn gattttcgca ctctacccca aatatcattc 60  
tacattgttt tcaagtcctc ataatacattg tgtgacctgtg aacattctca ccataaatca 120  
taccttttct acattgagat cttttaactc cttttgtata gcctcaattt attttctaaa 180  
atattaaagt tcctcatcat agcatcccat tttttggaaa ctttgtcatt ctctagaaca 240  
agctctctct cccttgatat caacgttata taagcttcac tgttttgagt aggtgggtatc 300  
acagaactta tatttttagt tcgatgggtc tatttaagct tagtattatc tttggacagt 360  
ttcttaaatt cttctcaca g 381

<210> 12455  
<211> 274  
<212> DNA  
<213> Glycine max

<400> 12455  
tgaaggacat ggcctactg tgaatatatc atgtggccct gtcgtgaatc agacatatgc 60  
tcaccttcca ctcatgctgc agcacacttt aatagcactg ggctactgcc aattcaatta 120  
tagttatcta ctaacacacc tcagatacgg cacttactgc atgtgagtat cactaaacta 180  
cccatagacc ggagactact ctatgagccc tatagtacca catctaattg aaaatacatt 240  
actaggcgac cctccctact ctatggagcc ctag 274

<210> 12456  
<211> 346  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12456

taatatatcg agactctcga aattgaacaa cggaagctat cgagaaattc aaatgggtcaa 60  
tacttcgaac tcggagggtcc tattaagggtg cataatatat ctaaagctc aaaattttac 120  
aatggaagct ctttggctat acaaaggtc ataacttttc actcgaagggt ccgattaagg 180  
cgcataatat atcgagacgc tcagaattga acaatggaag ctcttgagca attcaaatgg 240  
tcataacttg tcaactcngag gtccgattca gctgcataat atatcgtgac gctcgaaatn 300

gaacaatgga agctcttgag caattcaaatt gggtcataact tgtcac

346

<210> 12457  
<211> 465  
<212> DNA  
<213> Glycine max

<400> 12457

tgtccaaaga ttggttcatt aacttattct tggacaaaaa ctggttcttg agccacaatc 60  
attagagggtg ataaccttta tgttaacttc aaaacattaa aggtctttta gtgtccatcc 120  
catgttcgtg atttggtatt taattggaaa cttgagcttc atcaagttaa atcatttttc 180  
catgactagc tctacaagaa gtttcctttt tagaaatgtt actcgtcttg ccacaagcac 240  
tgtatggtca gaagggttgt ataaacaata tttcataatt tctttgggat acccaatgag 300  
tctacatttc tcataccttg gctcaagtgt gtctatttgc aatctcttaa tgtaagtggg 360  
acaatcccaa gccttggtgc gtttgagatt cattctagcc ctttccatat cacatatgga 420  
gttgtagata tacttttcta agacatgatg tatcacatac acttt 465

<210> 12458  
<211> 367  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12458

gagcttgaca agctgccata gcagcaacaa catattctgc ttcacatgtt gacaaaacaa 60  
ctagactttg cttctttgag caccaagaga ttggtgatgt tccaaatttg aaaacatacc 120  
cagcagtgtc tttcctgtca tccttatcac cacaccaatc tgaatcacta taaccaaaca 180  
attttccttc tatattcttc tgactgtaaa gatataaaat gccaatgatcc aatgttcctt 240  
tcacatacct cagaatcctc tttgctgcct ggaagtgagg tgtcttggtt tctccataaa 300  
cctgcttatc aaccaaacac aataggcaat gtcaggtctg gtgttacata ngtagctcaa 360  
tgagtct 367

<210> 12459  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12459

cccatcacat gtggtactat gtggcggtcg ggcgatggtg cacaacaagt gttacacatt 60  
cacaatgcgc gcataaaccc accatcctct gttggccacc tgcaactgag ctacagtact 120  
cccacgtagc ccatattctc gggtctctca acaccgggtg cccatcaatc cttccaagct 180  
ttcacaacat tcaagcaaaa caacattcaa acagcacaaa ctaccacagc caagaaaaca 240  
gggcaaaggc agaaaactct gctcaaacac caacaaaaaa tcacagcttt tctcacttat 300  
agaccccagt aacaattcct tccatccaat tccgtaaccg gtggatcgac tncaaaattt 360  
tactggaagt ctctagtaca taagcctaca 390

<210> 12460  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12460

tcttgggggtt gcaacagggga ctaggactat ggaccaattc catatttggc aaaggcatca 60  
taattggaat tctggacacc ggcataaccc ctgaccacct ttcgttcaat gatgaaggaa 120  
tgccactccc accggcaaaa tggaatggcc gctgtgaatt cactggggag aagacttgca 180  
acaacaagct cattggtgca agaaattttg tcaaaaaccc aaactcaacc cttccactgg 240  
atgatgtang tcatgggacc cacacagcca gcacagctgc aggaagactt gtgcagggtg 300  
ctagtgtctt tggcaatgct aagggttcag cagttggtat ggaccagat gcacactntg 360  
taatttaciaa gggttgtgac ctctntgatt gtccgaaag tgcaatacta gctggaatgg 420  
gcactgcaat acctcacttg gaggaccatc tgttcctttc ttgga 465

<210> 12461  
<211> 123  
<212> DNA  
<213> Glycine max

<400> 12461

gctgaagttt cttttggtga aggaaccatg gaaaagcaga gcgtttggaa tggtttaacc 60  
aatttctgag aactgttggg ggatgctgaa aacgagatta tcacgaatat ataagtttga 120



atg

123

<210> 12462  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12462

tgccattcac tgnnactttt atattattct attctattaa gtttttntta gaagattggt 60  
ttattaaggt taatttagtg gtaaataaat aattttatga attacaagtt taaatttctg 120  
ccataatata caaaaaagta tatatatattt attagagatt ntatgtcgaa ttgtaatata 180  
cataaaataa agtatataaa ttgaaaataa cttttatatt tagaggtaat ttttaagatt 240  
aagctagaat caatccgaaa ttgttggatt gtataacaat ttatcatagt aattattggt 300  
tggctaataa ggctcttccc cttattggat tattattaga tcactctcga ttgtgtaatc 360  
ttataatttc acgctctaaa tatntttttt ccacgtgaaa atagtgtatg agagagctca 420  
cattaattag taatgtgatt agagtanaac atatatgtag aggat 465

<210> 12463  
<211> 474  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12463

tgtagatcaa tggagtcctt tngaattact tatgattcag aagatagaca ctatgttnta 60  
cctccatcaa gagtactcag ttgaaattca tagttcggtg gagaatataa ctaccaact 120  
ggaaaacatt taaactaggc taacccttag caacctcctt aaccctaag aggacgacac 180  
ttagttgtgt tataagtgat tgtcgcaacc tacccttcaa cgggagggcg aggcgaaacg 240  
taatagtgtg tcttctcatg atgaaaacac atggagtcac caccaacaat tattcaagga 300  
aaacgtaga aaaacaaaaa agaggggtgt aaatgatgaa nataaagggt cgggagttgt 360  
ttacgcttgg ngaagggtatt agcaccacac acgcccgcac aagagactgc agcctttaat 420  
cgagtgtgca taacatgnac ttcaaaatat tacttttctt ctttatattt ttat 474

<210> 12464  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12464

tgaaccacaa accggtgaaga gtgtgacctt aaactatgag tgaacgacta gttgtgagta 60  
 ataatctttg catgaatctc tgaattntag aatgaaatgt ataaatgagg acatgatgaa 120  
 ggccatgggt gtacatacac aagttctctg accaaatagc ttaccttgaa tgatacttgt 180  
 atcttttgc cctgtgtata aagcttattg atttgtcatt aactgaacgc tgaactntaa 240  
 atgattatct cctaatacct tgttttagatt ctaggagagc atatgcttca aggaaaattt 300  
 actctaaatt tgggggagaa aagttgaaaa gaatgaaaag aaaaaggta agcatcagca 360  
 cacacaacac ataagttgta tgttaaaaaa aaaagagaaa aaaataagtt gtgctggtac 420  
 aat 423

<210> 12465  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12465

ttaacacttc ttggcaaaaa acttanatga tgtttaaatt ccaattattc acataaaaag 60  
 gaagaattaa gagagaaaat ttaacaattt ctacataatt taatcccaa atatacctat 120  
 acatagcagt tatcagtgat tcaaaatgca agaagaatga taaagaaaag gttaaagatg 180  
 atgattacga ctacaaacct gaagatgaag gagaaattgg ttcaaattgt ttaactaaac 240  
 aagataggga tgaaataggt gatgggtcca tcattgaaaa tgcttttggg taccaaaaaa 300  
 gaaaggtag tcttgaaaaa ttgtcaacat tgcttttctt ctaaactatc tttttggaag 360  
 atactttntt ttcttttcta nattgtatat tagaaaagat aaagtcctgt gttactattg 420  
 taaattctag gtatctcatt attacataat tntatcatc aaaacataca acat 474

<210> 12466  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 12466

tgtgtaatcg ggagattcaa ccctctggct caataatatt ttaccaggaa tgttacgacc 60  
cttgagtaac cttcaciaaag gagaaatata aaactataaa ttcccataaa ttgtataagg 120  
catgtgcttc catgaaatgc attttcaaag caacaataat ccataaact acgaaaagaa 180  
ggttcccaat ttgactgaac ggaatacagt cacatcagca ttggattcaa tcagacacac 240  
ataaaccatt tccaaccatt tcttagaatt tcacccttcg aaaattcgtg atcttaatgc 300  
caaaaaaatt caaatTTTTT taaatgggtt gtctaaatcc gacggatgaa aacattanga 360  
agtgaagatc agcgaatcan gcattgaaat tcttgagatc ac 402

<210> 12467  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12467

tgcttgtagg gcttctatgg aggctggatc tttgagcttc aatgagggtc ttcaatgggtg 60  
attntacacc atggagatgc agcgggaaggc aaaggagaag aggagaaggg aggcaccatc 120  
cactatggaa taagccaagg aagaaggagc ttcaccacca agaattgtct tggataagaa 180  
gcttgaagag gatgctttaa tggagaaaaa gaaagagaga aggggggagc acgaaattga 240  
aggaataata gagggagaga agttgatctt tgagttgtgt ctcaacagac tatcattcat 300  
caaagttcca acaagtgtta cacatgtttc tatttataga ctangtagct tccttgataa 360  
gctntcttaa gaaaaacttc ttgagaagct tctttgagaa aaattccttg agaagctaga 420  
gcttagctac acacaccnt ctaataacta agctcacctc cttga 465

<210> 12468  
<211> 448  
<212> DNA  
<213> Glycine max

<400> 12468

tccactccag ttcccatacg agtacctgac ggggtgtgatt ttcaaactgt aaaaaccaga 60  
atacacaata cccttaagct aaccgacaag caatttttgg atgaaattta ctatcggcag 120

cctttcacgt atgcaggtaa tcaatttcgg tttcaatgta tgcaactgat agatgatgct 180  
 gatgttaaca caatgttaat gtgtaatcat gaattctcat ttgttggttc gattgagtta 240  
 ttatgtagca ttgctagaac cccaaatggt attttaaaca tacttgaagc tactatgacc 300  
 cctactcatg atgccctgct atattacaat gggagggtgga acatgtcacg ccaaaatgag 360  
 tatgttggtt actcgctcac agggaaaaaat cccaaaactc tgacattcca tcggatgccc 420  
 atggtgaact gaaggattga tcacaagt 448

<210> 12469  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12469

agcttctata taaggtttgt tcttaatttc tctacaattg catcacctct caatgagctg 60  
 gtgaagaaga atgtggcatt tacctgtggt gaaaaacaag agcaagcctt ttctttgctc 120  
 aaagaaaagc ttactaaggc acctgttcta gctcttcttg acttttctaa aacttttgag 180  
 ctagaatgtg atgcctctgg agtgggagtt ggagctgtat tgttacaagg tgggcaccct 240  
 atttcttatt ntagtgaana acttcatagt gccgcctca actacccac ctatgataaa 300  
 gagctttatg ccttaataag agccctccan acttggaac attaccttgt ttccaaggaa 360  
 tttgtcattc atagtgatca ttaatcactt aagtacatta gagggcaaaa caagttaaac 420  
 aagaggcatg cataatgggt 440

<210> 12470  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12470

agcttctatg tgatcaatgt gtctatcatg tgttcaacaa tatggatgag gactccaagc 60  
 ataccttaat agttaagggt tcaatagttg ctaaaaaaca aaagtttagc aaaactaacc 120  
 tgaaggctat gaacgtggcc ttggaacaaa cctggaagga ggctctagaa gtgggcgtgg 180  
 aagccatcag atatcgaaaa caaaaaagat tggccaagtc cattgttgaa tntgataaga 240

tagaaatgaa tattccaaca tgtacgatgc attagataaa gagtntgtgt gtgtaagtat 300  
aggataatat tgtattaaat attatgggtg tacaatgaac aaaacatatt ctaagtttta 360  
caatgaatta tatgttntga tgtaacatcc tcagctctac atcttagtca tcaagctgat 420  
agtataaacg catatgata 439

<210> 12471  
<211> 204  
<212> DNA  
<213> Glycine max

<400> 12471

tttgctttgc atgctcggtc cactgcagtg gacggaacta tgtgggtact gatcgacgca 60  
tgctcgatga tcctagtagc atgacagata ctgctgacgc ctcttgagag agcctgcaaa 120  
ctggagatgc ccatactgtg actgttggtc atatactgcc aagatctgca catgaccgag 180  
gaatagtgtg tctctgactt tcac 204

<210> 12472  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12472

agcttaggat ttcattctct tatcttcaat gcaaggaagt atgacttatg cctaanaatc 60  
taaatttttg ttttgaaagt ggaaaggcgt gaaaattaag acatgcttga gagggttttt 120  
actagaattt ggctgccccca tgagggatac tttgcatcta ggtagcatgg aaaatacctt 180  
ttaatgggat gtatatatgt gtgtgaatat aggtagcatg gaaaatacct ttcaatgatg 240  
tgtatatatg tgaatatatg taacaccctg atatatatat ctatatatta ttagtaatta 300  
atgttgatgt ttgattatgt gttgcgttat tttcatcccg taattatgtt aagggaagtt 360  
aattagttaa tagaggggtt tggatagata aggatctaac ttctc 405

<210> 12473  
<211> 442  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 12473

agcttgtcat cttgttacat cagaggctag tattttaata aatgtgggta ggaaaaattc 60  
 accanattga tagagaaaaa tctaaaatca tacatcttag gcaaataagg catgctagcc 120  
 cccaacatta ttgcatntg attccatctt tggacattca aattgttgtt tatttttctt 180  
 gttatctttt cctttgcctt agtctaaatt tcaaacttac aattcggtat ctctttcttc 240  
 ttttgtttct cctcatttct taataattgg atttgcattca ctttaagtaca accaaagtcc 300  
 ctctggattc aacagttgaa cttcaatttc aatctttact acttgtgata aaattaagac 360  
 actngtcaat ctattaacaa gtttttggca ctgttgatgg ngactntggt tntcgtactt 420  
 ggttgttaca aatcccaatt tg 442

<210> 12474  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12474

agcttgcatt attcacattc tccccctttg tcaagcaaatt tctttnttat atcatcaaaa 60  
 cctgcatgat ttacattctc cccctttttg atgatgacaa gcattatcca aggcttgatc 120  
 tttttgacat catcaaaatc ttcatgattt acattctccc cctttttgat gatgataacc 180  
 acctataagt taggagcaac aacaaagaan aaatatctat ttgcatatag tttactcccc 240  
 cttggttntg gaatgtttgc ttatatgaga caattgaaga tttcatattt ttcatatata 300  
 aaaagttgtc tcataaagaa tagacattnt tccttactaa tttatcttgt atatttctct 360  
 ccccttttgt caacatcaaa aacaaatcat gaatagagag gagaaaaatg ttaccacttg 420  
 ttgtaatgta taanaatcaa gt 442

<210> 12475  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12475

agcttagagt ttctggtagt tcattaaata cttgtttcat ttctccaag ctcatatttt 60

ccaaaacgga gggctctaggg gcaaccctca caatttcact accttttggg tectgaactc 120  
 gtgcgtcggc tttaatgact agttcggaat tagagtttgc accacatttt attataaatg 180  
 gtgaggacga gcctgtatta aattggagta cattccactg tgcaacgtca gtttcagatc 240  
 cagagcccag atctgttgat ggcttgcgac catgaganat atcttgaatg gngtcatctt 300  
 cttcaggaat tgactgtatg ataacaaaat aaaggatttg ggcatcaaag aaaatcaatc 360  
 canattcatt ntcatcagtg cagttcttta gcatatacct aagctatagt cacaaacagc 420  
 aaagtaatca a 431

<210> 12476  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12476

agctttatct tctttaggaa tcttcttaag gaagcttctc aaggagggtga gcttagttat 60  
 gagaggggtg tgtgtagcta agctctagct tcccaaggaa gttttctcan agaagcttct 120  
 caaggaagtt ttctcaagaa agcttctcaa ggaagctacc tagtctataa atagaagcat 180  
 gtgtaacact tattgtaact ttcattgaatg agagtcttgt gagacatact tcaaagttcc 240  
 acttctctcc ctcttttatt ccttcaattt cgtgctcccc cctctctctt tctctccctc 300  
 tntcttttcc tccattgaag catccttcca agcttcttat ccaagggtca tcttggtggt 360  
 gaagctcctt cttccatggc ttattcccta gtggatgacg cctcctctca cctcttctcc 420  
 tttgtctccc gctgca 436

<210> 12477  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 12477

agctatgatt tgaacatgct tgaataacct gcacttgtga agcatgcaca tgcattgaata 60  
 gtatacaagt aaagctttgt acaagaagga tgcacatgct agtaaataatc agcctcctga 120  
 atattatata gggctctctta catgaaatga ggtatcatatc ttgtggaatc ttagtaaaaa 180

aatagttggg tgaaagacta caactcgtat atagctagtg aataataagt tgtcatcacg 240  
ggccactgaa acgattaagt gcgtgaggtc caatcaagct gaaatatcac atcatgatgt 300  
tgataggcgc gtgcttgatg ccggatacat cacgtgtaag agttcatttt atgtatcttc 360  
ctctattatc aaatatgatt gtggcaagtc attacagttg tggcgcagca gtattagcat 420  
cccttt 426

<210> 12478  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12478

agctttgtac ttcaccgatt ccagagcgtg gaacatcaat agtgtttcaa ggccatcaaa 60  
ggatggttat tcctcaaaca gagacagggg cagctgaggg atgatgaatt tttgcacttc 120  
cttgaggag gcagagccat acaactagga tcggcaaact tgtgatctat ccatcattat 180  
ttcttttagt tattctatta ttctgttatt tcccttgta tctgacatta tctgcttcca 240  
aatattatgt ccattgtgat tgaactgcac atgcagttat ctgtcgcatt gtgagtaatt 300  
taaccgcttt ggcatatggt cgtacttact ntacgatgat ttgtctgaaa cacanaaatg 360  
tgtaagtctg gtgtactttc gttcacacac tttntttcaa taaaatgtaa tctcgggtat 420  
caaccgtacc ca 432

<210> 12479  
<211> 319  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12479

agctttgnat gtatTTTTgt gaccCGgtgc tgagaggaac gatgattaag gctacatggg 60  
agtacgtgag cttagtTgaa ggtgggcaac tgaggatggt gggttcatgt gtgattTgtg 120  
gatgtggaga gttgattTgt accatcgccc gatcgccacc tattaccaca tatgacgggt 180  
accccataat cctacaagct tgaagtgata cagtgtggaa gagtcagtct tcctactttt 240  
attcgtagac cacagagtgg tacctggaga tatgtctcgg cggtcaggag accttggggg 300



cgtcaggtgg ggtgctatt

319

<210> 12480  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12480

agcttttctt cttgagaagc tgccttgaga aatatacctg agaagcgtcc ttgagaagat 60  
tcctagagaa gctagagctt agctacacac acctgtctaa tagctaagct cacctccttg 120  
agatgagaag ctagagctta gctacacacc cctcataata gctaagctca ccctatgaca 180  
taatagatga aaatacaaaa gatgtcccta ctacagagac tactcagaat gccctgaaat 240  
acaagatcaa acagaatggc aaaatcaagg cccaaagatg gaatacctat tcgatatttc 300  
aaagagagag ggtccacctt ggccatggct cagnatctac ctgagtcatg aaacctaggc 360  
ctcttatagc ttagccatcc t 381

<210> 12481  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12481

ttgcttatgc tatactttcg taagctactt gagctgagtc tagtcttaca tgagggattt 60  
gcagatgaaa ctacagttta gttagtctaa acctagagg gctgtctaaa tcgagcctag 120  
tcttacatga gggatctgcg aatgaagctt ggattaattc ggcctaacga gggattgaag 180  
gtttagtaat ttacggtata acatagaaca caagagcatg attgattata gaaatatatt 240  
tctatgcac aacttatctg ttataaagac ccaacatttc taccactgc tgcatttcta 300  
tttaccttgc attgtatatg ctttagcata atagtttagt ctaaattctg tttganatta 360  
tcactcttac atgttctctc aacatgcttc gattctgaac ttaattcaag ttaacattag 420

<210> 12482  
<211> 425  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12482

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accaagaaga attaaatcta gccatggccc acgagcacia agtggcgggc gagtatgccc 120  
gagtgtacgc agaataggag gctagaggaa gggatgatcga ctcgttacat caagaggcaa 180  
caatgtggat ggaccgattt gctcttactt tgaacgggag tcaagaacct ccccgattgc 240  
tagccaaggc caaagcaatg gcggacacct actccgcccc cgaggagatc cacggacttc 300  
tcagctattg tcagcatatg atagacttaa tggatcatat aattagaaac cgctaggaag 360  
ttngtattgt cactcagatc ttttataact ntctgaataa natgagttta tcccacgttt 420  
ttact 425

<210> 12483  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12483

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tgagcttgac ttgattttat tcattttttc ttccataaac tactttcagg ttcttatctc 240  
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ttttttctat tttatttatt tatattntat tgtacgttta tgcttatcat tntctacatc 360  
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acaatntgct ttattctaac 440

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<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12484

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 tntttactcg gatgtctgat tgagtcccg aatatatcga tttgctcgaa atggaattcc 180  
 gaagctctga gcaaattcaa acgacaataa ttttttactc ggatgtctga tttagtctcg 240  
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 attttttact cggatgtctg atttagtcct gtaatatatc gactgtctcg aaatggaatt 360  
 ccgaagctct gagcaaattc aaacgacaat aactttttac tcggatgtct gatttagtcc 420  
 tgtaatatat cgagattct 439

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 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12485

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 aacataggaa ttatgggtgg tgcattgtgg gcatctgggt ccatgggtgc tgcgaggga 240  
 ggtggggtgg atgatgaagg gatgtcttca gctcttgctc tctttcttga ggccatctgt 300  
 aagaaaagaa tgtgaacatt taaaaaatt aagacaacag atagataaag gccgcttagt 360  
 gaaatagcag ttgcttagtg gtctcacan aacaatatat atcgcttggc gaagtanaag 420  
 tcgcttagcg aagtttcaa 439

<210> 12486  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12486

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 attctcattt atttaaacag gtcaaattca aagtttggat ttggcttggt aaaaagcata 180

atacttacat ttgacttggt tatcttattt ataactttat ttttatattt atcaaataca 240  
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 tgaaagaaag agaataacag aatgggttaa aattcaaaag atatatataa gtaacttntt 360  
 atgacgaaat tgtaatttat ttattaaaag agaccacctt catcaagcat ttaataaccc 420  
 tacattaata cactgacaaa g 441

<210> 12487  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12487

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 ttactttcac agtntgaat tactatttct caacattaac attcttagct atggagctta 180  
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 taaataaaat atataaaaat attaaacaaa ttcacatgga taaaagggtc acctatcaca 300  
 ttcacttcac tattacccaaa taaaacttat tanaaatata tttggctcan aacaagggcc 360  
 gtcaaaatta caaaatattt tggttaaatca gtgaggtaaa ataanataga ctaacatcat 420  
 ccaattaata ta 432

<210> 12488  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<400> 12488

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 aaaatccagc ctccatagaa gcttctcaag caagcttcca tctcctaaac acttaatcaa 180  
 tccaaggatc cattccaagc aagggtgaat ttgagttcta atttaatat tctaactcctt 240  
 gtgaatgttt atctttttct tcaatcctat ttttgatttt catgaatata ttatgcttag 300

gattgaaaat ggattaggtt atggatttat ttctaattt cacaatttaa tcacagaatg 360  
tatgaatgat tcttcaacct aatttgtgat ttcaaacaat taagggaatg attcgattga 420  
actatatcta atgcat 436

<210> 12489  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12489

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tgaggaagga gatacccatc tcggccccct gctccacctc anagatccgt ccncacatga 180  
actaccccaa ccgaacatag tctgccatat cccggcctca cccacacccg taaaagaatc 240  
tgttcccttc gcggaagata agggaaagat agaggcgctt gaagagaggt taagagcagt 300  
cgtgggcctt ggcaattacc cattcttaga attagcggat ttatgtctcg tgccaatat 360  
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<210> 12490  
<211> 428  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12490

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gcaaacaaat ttctaattta taaaatatat ctttaattct aaacaacatc ctanaagtaa 180  
gacaatatct ttttttaaata ctacataata ttctagagat ttaaaattat aaatttaaat 240  
tatttcctaa ccgttatgac aagattatag attggctatt tagccatgga ttgattgcc 300  
agacaatatt actattgaag gagaaatttt ttttacaaa atactatgat tccacatctt 360  
aatcataata atttaattta aatattcttt aattnttaat tcttgtttct cttctacacg 420  
aataaatc 428

<210> 12491  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 12491

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aaagaagaat gaaagctatg ccaagcaagc ccaaaagaaa aggaaggaag tggacttga 180
acccggtgat gatcttggac atttgaggac aaatgttttc caagaaggag ggaatgatga 240
gaatcatgaa acaggccaaa tacagtctaa aggcccaagt ggagaaggac gaaggcccaa 300
gtggagaagg acaaagcccc cgagtggaga aggatgaagg cccaagtgga gaaggatgaa 360
tgcccagagg cagagacact atcaagacta ttaattgatg ctg 403
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<210> 12492  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12492

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gtatagcata attgaatggt gcaatcccaa tgtgtgatta agagacaaac acttgaatgc 120
acttgtgagt gagtgaacaa cttgattagt gaggagtgtg ttcttcttgc atcaatgatg 180
aattgccatg cttgttgttc tccttgaatt ttgagcttgt gtatccttgc tatggtctcc 240
taaagaggac atccctgtga ataattgagt ccttgtccca ttcacttttt tttatagaaa 300
atacatgtgt tggatatggt aggatggaat cgatctcaac tcatgtcaat ggtttaatct 360
tagcactagt agttatcatt taac 384
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<210> 12493  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12493



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ccgaagcaga cccaactctc teggcaaccg cgcaccatcc tccctcanac atagtaggac 360  
ggngaaggga cacactnggg cacgatggca accctcatct gggatacaac cgagcggctt 420  
acccttatgg a 431

<210> 12496  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12496

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agaaatacac aaaaggtaca cttctctata tttgcataga ggggtgtttt cctaaggact 180  
gaatgaactt gcttgagatg tctaagtga tcatctangc tctgctgta cactaaaata 240  
tcatcaaaat aaaaaactac aaatctacct atgaaatccc ttaagacatg atgcataagc 300  
ctcataaagg tgcttggtgc attagtgagc ccaaaggca tcaactagcca ttcatacaaa 360  
ccanacttgg tcttgaaagc agttttccac tcatcaccct ttntcatcct gattnggtga 420  
taaccacttt taagatcaat t 441

<210> 12497  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12497

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ttgtgagcta actgttggtg gttgtataca atcaccagct gcccctgaa taagctctgc 180  
aacataggaa ttatgggtgg tgcatgttgg gcatctggtt ccatgggtgc tgcggagga 240  
gggtgggttg atgatgaagg gatgtcttca gctcttgctc tctttcttga ggccatctgt 300



aagaaaagaa tgtgaacatt tacaaaaatt aagacaacag aaagataaag gccgcttagt 360  
 gaaatagcag ttgcttagtg gtcctcacia aacaatatat atcgcttggc gaagtaaaag 420  
 tcgcttagcg agttttcaa 439

<210> 12498  
 <211> 232  
 <212> DNA  
 <213> Glycine max

<400> 12498

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 gctgcaactg agctgacgta ctcccacgta gcccatatgc tagtaaataga agctccgggt 180  
 ccccgtcact gcttacatgc ttacactacg tggaagctga acaacattcc ca 232

<210> 12499  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12499

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 agggatattt tttgattatt atattattat tttacctctt ttttgatttc caacgtgggt 180  
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 acgatcagtg gaaatttatt ntatttttag attacgcgag aaatgactta tataaatgac 300  
 taatgcatgt cataaggggg tatagaaagc gaatgatcac gaaaataaaa atacatgaaa 360  
 caaaatgtgg accaccacgg gtacatagaa tgaattgaat agctcgggtt gaagtactta 420  
 c 421

<210> 12500  
 <211> 581  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12500

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taacctcgat gcatgcaagc ctgctaattc tggtatacaa catatgcaca cactaagcgt 180  
gatacacatg cgcataaggc gcgaactaca cgcactgagc gaggggggtgt caggctaaac 240  
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ggaataccct acacaccacg aaagaacccc ctcgctccagg agattcatta actcactatc 360  
tgtattcaac acctcacata gaaagccctc tatgcgcatg actggctcaa cctttcactc 420  
aaggcatgca taacctaaac aacgaccacc atgtatgacg gacattctac tatttatcaa 480  
agcaaaacca tgctatgcaa atcgtaanat atatctcgat ctaaaattgc caacacatac 540  
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<210> 12501

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12501

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aagcccactt caacagctat aaatattgag tcaatccaag ggggaatacg caacacacca 180  
cgaaagaacc cctctccta ggagtttcat ttactctctc tctttctttc accccttctc 240  
attgtaaagc cctctatggc catgagtggc taaaccctta gttagggtct ggcagaccta 300  
gaagccaacg caatgtatga tgtactcttc actatttate aatgcnatac cagcatttc 360  
tctcctattt acttctctgt gattatctag catactcacc tatatattct 410

<210> 12502

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12502

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 aaatcaccat tgaaagacct tattgaagct caaagatcta gcctccatag aagcttctca 180  
 agcaagcttc catcaccata cttnttatca actttaacac cattntttgg gtcanaccaa 240  
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 tcaacaattc cataatagtc cagatcattg tcaccatata tatgtcccct aacacatctc 360  
 ccactattca tgggtggctgt attttttcca tatttcttag tatgaagcct gtccccttaa 420  
 ctattaaaag ata 433

<210> 12503  
 <211> 428  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12503

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 tttctctcta caaatctatt tttttccttt tagaaagaat aaggactaag cataatcatt 360  
 aatatctatn nttctatggt tgcgactgag caaccaacat caactaaatc acttgatcat 420  
 catgctaa 428

<210> 12504  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12504

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cgagtggagg aacgccccgg catttacgca acaagcataa tgtaaaccctt cacggtttta 180  
aaagctctat agntgggcct atgctttaga gttttctttt tggtaaggct ctgtgtctta 240  
tgtttttgaa ttgttaatac aaggatctct cttcatctgt tcttgagctc tacccattct 300  
cattcatttg catgttactt cttgttttga cacgcatatt cgataccagt ccccgatag 360  
actaatacct ggaccggtta ttctctctag cagatatga 399

<210> 12505  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12505

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tgatagccgc cgatgatccc attattgctt cccctaagct ctttgcctt tcttcacgcc 180  
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cttatggcga ggacgggatt ataattaata caacccttg tcacatcaag agaacatttg 360  
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taacagacg 429

<210> 12506  
<211> 439  
<212> DNA  
<213> Glycine max

<400> 12506

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acatgcatag tattgccatc atcataaagg gggagattga atatgcaata gcctttgatg 180  
tgatgaatat gatcatgatg atgtgttgca attgatgcaa atgggcgttt caagattaaa 240  
tgtcagacaa taactcaaga ttaccacgta caacatcaag atgatcacta gaataatatg 300  
aagggaataa ctatatgcaa tagcaaaggt ttgtccaaat gatgtataat taaacaaaga 360

ttcataaaag tattactctc tggatgata tcaccagaag atgtgaacga tcaccatggt 420  
ccaatacgtc aatactgcg 439

<210> 12507  
<211> 406  
<212> DNA  
<213> Glycine max  
  
<400> 12507

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aagccgaggc gcttccgaaa cgtttctgta acgtttccgt gaggaattc tcgaagggtt 180  
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<210> 12508  
<211> 308  
<212> DNA  
<213> Glycine max  
  
<400> 12508

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gctcatcc 308

<210> 12509  
<211> 437  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations

<400> 12509

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tgaataattc aaaatagata tcaatgtact aagatgcaac atacaagata acaaccaata 180  
caaatgtcac tcaagggagt taggcatgta aaagtcaaaa catcttcaag cttttccttg 240  
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catagacaat aaatgactag canatcatgg ttactcgctt cttggagtgt gccaaactcaa 360  
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<210> 12510

<211> 349

<212> DNA

<213> Glycine max

<400> 12510

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gtctatcata tgctgacaat agccgagaag ttcgtggatc tcttctgggg cgagtaagt 180  
gactgccatc gccttggcct tggctaacaa tcggggaaga tcttgactcc cgctcaagg 240  
aagaactaac cgatccattc acctggatgc ctcttggtgt aaagagtcta tcaactcttc 300  
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<210> 12511

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12511

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tttgaataaa ttntaagaat aattatcata aaaattaata aatctatcat acatgatata 180  
attaaataat aatatataat tattttacac tatcaataca taatctattt tatcatatta 240

tattatgccc ccataatatc tttataactct tttccagcgg gcacacttaa ttctggtttt 300  
 caatagacat gaggatcagt ggacgtgcgg aataagtgtc attcccttac tctcaggaaa 360  
 cagccatata tatcgcatg atccaaaacta tcatatctat 400

<210> 12512  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
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 atttgactc ccatttttac taaatacacc cccctgcctt ttntttggtg attctttntt 180  
 cgtaaaatta cggaaactta cgaatttcgt aacgatactt gttttctttc cgtaatgtta 240  
 cggaaccttg cggattacat aatcatcccc tctttgactt acggaatgtt acggaacctc 300  
 actatttggtg caacgatgct ttcttttgat ttccagtgtg tcacggaacc ttacggatng 360  
 tgcacataa tattcttttg atatccggca cgtcacggaa tttcaciaat ggctaataa 420  
 tgg 423

<210> 12513  
 <211> 271  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12513

agcttcggta ttccatttcg agcgtctcga tatattacga gactcaattg gacatccgag 60  
 taaaaattta ttgtcgtttg aatttgatca gagcttcaac attcaatttc gagcatctcg 120  
 atatattacg ggactcaatc agacatccga gtaacaagtt attgtcgttn gaatttgctc 180  
 agagcttcta cattcaattt cgagcgtttc gatatattac gggactcaat cggacatccg 240  
 agtaaatagt tattgtcagt tgaatttgct c 271

<210> 12514  
 <211> 409

<212> DNA  
<213> Glycine max

<400> 12514

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ttgctttgaa tgttcatcat tgtaacaaac ctttattggt tctgagggtt ggagaaagta   60
aaattctttg aaagaatcga aatgctggaa gtaaattgac aagggatagg taaattgcag   120
aatttaaagg ctcaacgagt tcattcgatc gaatgaacca tttaaaagac aggaattata   180
taaaacgaaa cgtaaattgc attgcattcg aaatataaag ttacagaat ttaatatg   240
gtcacaatca tacattctcc ttgtgtactc gttctctctg cgctgggtac tttgagtgt   300
taatgattcg tacaaatgat ttgcgacctc gaaatctgac taaaaactgc tttatataga   360
cattctaaaa taaactggcc taacggtcga acactattct aatgcccag   409

```

<210> 12515  
<211> 411  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12515

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agcttgcatg atttacatct cctcttttct caagcaaatt cttcttgata tcatcaaat   60
cttcatgatt tacaacggca accctcatct gggatacaac cgagcggctt acccttatgg   120
attgccgccc aactactcac caccgcctct gcaagacgat gcgggcaata ttgcttctcc   180
tgtccttgaa agagagcctc ctcaacagcc cgacgaggtc cacgaagacc ctcaagacta   240
tgctcgaagg gatgtcgagt tctatcccc gattcccgaa gggccgacac ccagcatgtt   300
gcctcagccc aacatcacga cacaaccaat agtntgtcc atggaaggac tgccccggc   360
aactgaagaa aggaggaagc tcgatctcct cgaggagaga ttgagagcag t   411

```

<210> 12516  
<211> 441  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12516

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agcttgccct tagttgtcca ggaaggacaa ggcagccgaa ggaactagtt ccgctccgga   60
gtatgacagt caccgcttta ggagcgtgt acaccagcag cgcttcgagg ccatcaagg   120

```



atgggtcgttt ctccgggagc gacgcgtcca gctcagggac gacgagtata ctgatttcca 180  
ggaggaaata gctctacgga gttttaaaag attggctaag attttggtta aacataagca 240  
cttagacaat gaaggaaagc tggagttgct gcacatgatg tccaacgtta tgtcaaggaa 300  
taagatcggg ctgcacaatg cacaaggcaa gataaaatgt caaatgaaga attgaagttg 360  
caggatccac gatgtcggat acaatgtcct gacatcctgc ccganaatac tggagttgct 420  
gacaatgcat aagtcaagat a 441

<210> 12517  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12517

agctntgctt ctacacaaat gattaaatgc atganaaaca aactaagata acagaaatta 60  
taattgggtt gcctcccagg aagcacttct ttaacgtcat tagcttggca cttttacctc 120  
actgngtgat cttatgtttt ggttcgtact ttcagaacct cttgacctct taccattacc 180  
tgtaagcaaa catttgtgtt tggagcaggc ttatcttcaa aaaataaatc aaatcaatt 240  
ttatgatctt caaaacctag ctccagcttc ctcttccca tatcaactat gcagcttgcg 300  
gtcaacatga atggccttcc aaatattaca gggatgccag tatctntaga gatatccatt 360  
accacaaagt ctgccgggaa gataaaatgt tntactctga ccaacacatc ttcaattact 420  
ccatgatg 427

<210> 12518  
<211> 436  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12518

agcttgtgca ttattaatgt caatgataaa aaacagaata tgaatcatat caatttcaaa 60  
accttcatac tcaataattg aatcatctgg ctttttatta gccctgtctt caaaatccat 120  
tgtgtatgac ataccagagc accctccctg tttgacacct attcttaaac ataaatcttg 180  
atctcggtca gacctcatct tattcaagtg cttcagcgca ttatccgtaa gtgaaaactgc 240

aggggccaga gaaccagatg ctgggtgcagc tganagatat tgagggtggg gtgagtgaaa 300  
gcaaagatta aaaaagtgct gagtgtggca gaaaaagtat ttcacataac anacaagtat 360  
ataacanaat tcaaaatata ctgtntagct gttgcaatct ggttaatgat attaaaacag 420  
agtgaatgcc aataac 436

<210> 12519  
<211> 447  
<212> DNA  
<213> Glycine max  
<400> 12519

agcttccttg tgaatcttct atggaggctg gatctttgag cttcaatgag gtccttcaat 60  
ggtgatatttc caccatggag atgcagcgga agataaagga gaagagggtga gaggaggcgc 120  
catccactag ggaataagcc atggaagaag gagtttcacc accaagagag tgtggaagca 180  
aaacttcatg atgaatcaac aatgattcaa aggtgttttg atgataacaa tgatgacaac 240  
aaaagatgat gacaaaagtg atgaacaaaa agctcaagtg aatcaaagaa catccatctc 300  
aagaatcaag attcaagatt caagttcaag aatcaagaag aattcaagac tcaagaagaa 360  
agcctacaaa caaagattca agatctcaag aatcaagatc aagattcaag atctcaagaa 420  
tcaagatcaa gaatcaagac tcaagat 447

<210> 12520  
<211> 431  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12520

agcttggttg ttggttntgt aagtatgtat ttgtagaagt aatgcagaag atgtaaattg 60  
gtttgatgct tttcctctaa gtcctctcta acttgctgga tggttgtaac acgggattct 120  
attttgttat ttaatttaac ttgcattctt ttgtattata tttatatcat caatgtctga 180  
tcaatggcat gagctgagca tcattcagga tcttactgac cgtatatcac tctttgtttt 240  
ttaggtcttg gggactgngg agacagagga taactgaagc agcacttgat ttttgtcact 300  
ctttntata ttatggtag tcatatcgac agtctggaga gtgaagtaaa gataatagca 360

ngttagtcat atgttacagg atggctntct ttangaactt ttcanatgat acagtctcac 420  
atggtgtcat g 431

<210> 12521  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12521

agcttttact ttcaatatan aactaacgtg ttctcaaaca tggtatatgg aattggatca 60  
ggctacttgt cagaacttac aatctaactc tgattaggca gagatcatat ttagaccagt 120  
ctgttaaata aataagtcac gcaagacttt tcttttttta acttagttag ttttttcttt 180  
gtacataaaa gacttattca gtttaaaaaa agtcaaattt tgaattataa aatcttttac 240  
ttccaacaaa ttaatctatt ttagaaatac aaataatata gcaattagtt aaaaaaata 300  
cttcatcaat tattaattct ctttttccct actttgtttt ttgtttcttt ntattctttt 360  
ctataaatga ttcttggaag agagccctca acgtaatcca tataggagcc ttcacaaacg 420  
ggaaactcac tc 432

<210> 12522  
<211> 430  
<212> DNA  
<213> Glycine max

<400> 12522

agcttattta taagagctta tatataaacc tacaacaaat agtttcatct aacacttctc 60  
tcaaaagtgc tctatttttt cattctgagg caatttttca cagaaagaag agcacattta 120  
attgtgagga gtcgatgctt cagatggact acttgaggag tcacctgagg atggattcaa 180  
tggtgaacca gctgtagag aaccatttcc accctcactc tcagccacca ctggtatctt 240  
gacagtggct gctctttcca tctctttctc gagttcttcc tctttacgca atgcagtaaa 300  
ctgggtatcc aaggatttcg ccgcagctag ccaggcagat acaatcagca gaagtattcc 360  
tcccaagtat ggggttgaat tagctagtga cccaaaagtc aagatcataa attgctggat 420  
aagggcacct 430

<210> 12523  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<400> 12523

agcttctgtt ttcaatttcg agcgtctcga tatttttacgg ggctctatcc gacatccgag 60  
 ttaaaagtta ttgtcgtttg atttttctaa gagcttcctt tttcaattac gagcgtctcg 120  
 atatattacg ggacacaatc ggacacccga gttaaaagt actgtcgttt gaattttctc 180  
 agagcttcta ttttcaatta cgagcgtctc gatatattac gggactcaat cggacatccg 240  
 ggtaaaaagt tattgtcggt tgaattttct cagagcttat gttttcaatt acgagcgtcc 300  
 tgatatatta cgggactcaa tcggacatcc gagtcaaaag tttttgtcga ttgaatttgc 360  
 tcagagcttc tggtttcaat tacgagcgtc ctcatgtatt acctggactt catcggacat 420  
 ccg 423

<210> 12524  
 <211> 566  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12524

ccgaagcgac accactacan acgccacatt agtaaggagc aaacattaac atacttnnnc 60  
 cannnnnaaa tacaaggag ggagntttga ttgatatcga tngcaangcg aacncaannc 120  
 nacannngac ccggggagac agtagagncg accggcaggc aggcaagctt ttccatatcc 180  
 tgacactgaa caacccccaa ggcgagcagg aggccaccac acgaacgcca ccaccacgca 240  
 caagacgcaa ccgtcaccta gcgaacagcg aaaaggaaag gcagcaacca gaaaacgca 300  
 aaggaaacag taacatacga agacaagcag acaaacaatg gaccaacgga aggataggac 360  
 caccgaaaga ggaacggacc ggatacgaaa gacaacaaga aagacaaggc aggaacagag 420  
 aaagaaccac cgaccgacac cggacgaggc cccgataaaa gaagcaaaaa gagcggccca 480  
 aagcaccgca aacggaccag aagaaaaaag acacgcccc aagcaagaa cagcaaccaa 540  
 cacgaacaac acaaccgggc acgaac 566

<210> 12525

<211> 421  
 <212> DNA  
 <213> Glycine max

<400> 12525

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agcttgacat tcatataaaa ccttataact aagctgatta ctatatttta gatcgaactt 60
agcgaaaaga atcaaaaagc gaagcagtgt atgtattgaa tcggatccgg gttacaccca 120
tgtcttcgat gatgcaccta tcgcgaaagc gaattatctg ctaatattaa taatttggag 180
ctaaaagtcg acagtttgtg gaaaaacgca atagcaacaa acgccgaaga tgaatcaaac 240
aagcccaaaa ccaaattctg agaaaaattc attcagaccc aagctaagaa cccaattctc 300
aaaatattaa aatagactag aaccaactt gtaaaaaggg gtgttgcgag aatcgaactc 360
gcgacctctc gcacccgaag cgagaatcat accactagac cagacaccct atacaaattc 420
t 421
```

<210> 12526  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12526

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tctgcttggtt attaacggaa gaaaagaaac cgaaattgaa caaaataaag atgaaagcca 60
aaaaacaaga aatgaattaa aaagtctcgg atttggaac ttaccggtg aagaatgaag 120
aacggacgaa gaacggtaaa gaacggagga aaaccttcac ggatttgctt acggaaacct 180
ctcggaagct ttacggaagc acctcggtt ggattttctt cacagaaaca attttttttt 240
acccaaaaca gctgaaatgc atagccagng gaatcaggca cccttagaac aacccccctt 300
tgctttnta taggaaaaag ggggaggagg ttgccgccca gctcgcttan gcgagctggg 360
ttgcttcac cttaagcaag aaaatgccta gaaacctcta gaaggccta gatttgaaaa 420
tact 424
```

<210> 12527  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12527

agctntagta ttatTTTTnt atattaaaaa aaaatttcac tacaaataaa acataattta 60  
gagactaaaa caatcgatcg ctaaagtgat aacttcagtc gctaaattga aaattcagtc 120  
gctaaaattg ttagcaatcg aaatgacgac cgaattctct gtgtcgcaaa accctagtct 180  
ctaagtcctt aatcaccaaa ttcttattca tttccgtgca tggttggttg ctattttggt 240  
tgggaccagt tcaacaaccg aaattatcgg tcgctaataa gtaataaaac tttaaatata 300  
acataaatta anataatatt ccgtcactat tgaataatta atttgtaagt aaaatttaag 360  
agaaattaca ttcgatcact aatttggtga ctaagtttaa aataaaatgt attaacaaat 420  
ataaattg 428

<210> 12528

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12528

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ttaccctcgg aagcaaaaaa agaatagaag ggaaatttcc aatcaaagaa aaagagaagg 120  
aaaatttcca atgaaagcaa aaaaagaaag gaagggaat ttccaatcaa agaaaaaaag 180  
aaggaaaatt cccaatcaa agagcgggag aaagcaaaaa gaaaagaaag gaaattccca 240  
atcaaaagaa tgggagaaag taaaaaagga agaagaagaa ggaaagaaag cccctgatcg 300  
gngatcgaag ganaaacaga agaaatatgc agagaggtct ttggaccgga caatatctga 360  
acaatacaga attgtcacca aatgaacaaa aaagaaggaa aggaaaccac gacctanaat 420  
ggtcttctcc ct 432

<210> 12529

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12529

agcttgacca ttcctanct atcccgggca tagtcagtca gtgagaacct gtgatgtacc 60

taaacaggcg agctcctggc agtcaacaga taaaaggaac aaagaccaca aagcaaggag 120  
gcttgtgtgg tggttggcca gctgtgaaat ttgagttata tatgggatat ggcctctggt 180  
aatcgattac caaggggtgg taatcgatta caaggcttaa aaatgaagac aggagactaa 240  
gatggtctct ggtaatcgat taccacggng tgtaatcgat taccagtctt ganaacgagg 300  
tcaggaagct atgagggctt ctggtaatcg attaccaagg ggggtgtaatc gattaccagg 360  
cttataaatg aatgtagcaa gttgtggagg cccctgttaa ccgattacca gtctgtgtaa 420  
tcgattaca 429

<210> 12530  
<211> 439  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12530

agcttaattg ttacttctgg tgtggctaaa ccaaataata cgctattctc ctaaattatc 60  
tttattgtca tgtaactgtc ttaagtaagg gatcaaataa attttgtag ctgaaattct 120  
atgttgagga caccaacagg gaattggcag ggaagattgg agttgtgata ttgggcatag 180  
gctagcaatg aaaagtgttg caggggcaag atgggtggtga ttcaaggcaa agagaatgaa 240  
aaaatctggt atgggttcgcg acaaggtggc gcttatggtt agcaagaaac aattgtttct 300  
ttatagggaa ggaggttaagt gttgagaatg ttgttgatag gaataagggtt gtttcctgac 360  
aatggttttt tgtataggaa tgtcaccaac tcgattntat tctcctcatg gtgcacgaat 420  
tcgttcttgt gcgcatgat 439

<210> 12531  
<211> 430  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12531

agcttcaaga ttaattcaaa tgacaataac tttttcctta tatgttcgat tgagtctcgt 60  
aacatatcga gacactcgaa attgactaca gaagctctga gcaaattcaa atgataataa 120  
gtattgactt ggattttcga ttgaatcccg taatatatcg agatggtcga agttgaaaat 180

ggaagctcat aaaaaatgaa aacaataata attgttaact ctgatgtccg attgagtccc 240  
gtaatatatc gagacgctgg taatggaaaa cagaagctca tagaaaatgc aaatcacaat 300  
aacttttaac tcggatgacc gattaagtcc tgtgacatcc tggaaatttc taaccggaa 360  
ttttgtaaat ggtgcattnt gaatggctat atatataagt attattcagt ggatgtatat 420  
aagtatatat 430

<210> 12532  
<211> 419  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12532

agcttttctca tgttttaagt tcttctcan aactgtccta agcaaagttc ccaatgtcct 60  
attagcaact tccatttgcc catcggttta tgggtgacaa gtggttgaaa ataacaattt 120  
agtgcccaac ttgccccaca tagtctcca aaaatgactt aggaacttaa gtccctatca 180  
ctaacaatgc tccttggaac accatggagt ctcaaatct ccttgaaaaa caaatcagcc 240  
acatgggaag catcatcaac tntnttacat ggaataaaat aagccatttt agaaaaccta 300  
tcatacgacc acaaaatgga gtctctacca ctgcttggtt ttggcagccc tataacaaaa 360  
tccatggata aatcaatcca nggatactcc ggaattggca atggagtata caatccatg 419

<210> 12533  
<211> 384  
<212> DNA  
<213> Glycine max

<400> 12533

agcttctaga tgagttatgt ctgcgaatcg gacatcctgt gaaaagttat gaccatttga 60  
atttctcgag tgcttcggtt gtttaatttc aagcgtctcg atattttatg tcctcaaatac 120  
agacatcgga gcgaaatggt atgaccattc gaatttgccg agagcttcg ttattcaatt 180  
tcgagcgtct agatgagtta tgtcaccgaa tcagacatct gagtgaatg ttatgaccat 240  
tcgaatgtgt cgagagcttc cgttggtcaa ttctgagcgt ctagatgagt tatgtcaccg 300  
aatcgacat ccgtgtaaaa agttatgacc attcggcttt gtcgagagct tccgatgttc 360  
aatttccagc gtctcgatat atta 384



<210> 12534  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12534

agcttttatag tttactgtca ctcacgtgcc catacgtaat agaaccaaat atctttcaaat 60  
 cagaaatagt tacacgttat aaccagggtcg taccttgtgt agaatcttca tgtcaattgc 120  
 atggagatct gtttgctagg tatgaagtta tatggctcat ctttgcccaa aatgatgtcg 180  
 aaaatacaac attaatcac atacatcgtg caccctacaa cagaagtgtt ctagtcatct 240  
 actttccaag tccattttta ttgtaatgtc ccacattcaa ataaatgatg cctcataatt 300  
 aacatttcta tagtactcct canaatctta atttcaaaat gttcccaaca ttgtcagttc 360  
 tcaatctctt gattaatc 378

<210> 12535  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12535

agctttaact ctgattattg agacactcat aagagctcaa gcttaagtcc ccattactac 60  
 acatccattc ctagacctgt gatagatgtg ggattgtgca tgggctggga gaatgcactg 120  
 ttaatgatga gataacctaca gccatgaatg agattaactt tgtttgggga agcaactatt 180  
 cttataatca gtaccccaat aatttcaatc aacgataggg cttcaagaag aatcacagaa 240  
 tgtttaggtc ttaacctatg caaaattaga ggctacaaa agaggagaca acccactctt 300  
 caagaaatca tgcttcaata tatgacccan aatgatcaaa gaatgaagta gggtgagtcc 360  
 taattgacca acatacaatc tctcttgtca caaagacaac t 401

<210> 12536  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12536

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gggattattg tgtatttgga gtgatgcaac tttcaaatg gaaaagaagg tcaagggaaa 120  
tggtttcata tatttggaag gtacttgggt tggatgatgt ggaaaagtga ctataatcaa 180  
tatttactct ccttgtgaca taacttctaa aagaattctt tgggatgaag tcaaacaact 240  
tagaactgcc aacaatgggg gtttatgggt tattttanga gacttcaata gcattagaag 300  
gaaatttgaa agagtangat tgtgtcagag gattcagaat ggaggcagcc tgaaggaatt 360  
cataatagga ttgttgactt ggatgttgag gatg 394

<210> 12537

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12537

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ttggggcaaa agatgaatcg agtcacatca ctgcttcgtc tactgccaaa catatttagg 120  
attattgatg tccttggttac ttccagtttc accttgacaa agatgtcatg gaccatgttg 180  
aaaatctaaa ttgattcaac cccatatact gcgtaaaaat tcgcaatact tcgactgtac 240  
atcattcgca tgcattcatg cttttcattg gttgcattgc tcattgcatt ctttccttga 300  
aaaataaaat aaaataaaat gaacttatca aanagaaaag gaaacgcttt acggcgccct 360  
taccgaactc gtgctagagc tagagtaat 389

<210> 12538

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12538

agcttatcat tatcaaactt ggagaaagag ttcttgggggt caagacatga gaagcaatca 60  
agtataatgt tacttccttc actaaagcgg tgatccatct ccacacatat tttatcaata 120  
gcaacataaa aaatctctgc acggtaatga tgaagattag tgatagtcct cccttctgct 180

cttgaacgac cccgaactgg tatttcgtca tccatatttg gtaccagaat acttttagca 240  
 acacaaaatc cttggacatc ggcaaaaaaa ttattccagc cactctctct cattgtgccc 300  
 aaccgagctn tgacaacatc aactaattcc atgacattca caatattaag atcttttctt 360  
 tgcaatatat ttgaaagctc gtttgtgata ccaacaact ntaacattaa cctcaaaata 420  
 aaagc 425

<210> 12539  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12539

agctntaaga tgaacttctg tacaatgggg gagtttctgt aatttggaaa aagtagaatt 60  
 gttaaaatgg taaaaatgtg tttaaagaga ttaagatatg aaagtcaggt taccaggggt 120  
 tcaggatcat ccagcatttc ctgagtaagt tgaagagtcc agatgtgctt tctggatgaa 180  
 tgtctctgcc tgccgcaagt ttgccgctcc agtggttgta tgaaatgat gtcaaaaaca 240  
 gagtgatggt cacatgcaaa aaaattgatg ttggttgact cgtagattnt caaatctttc 300  
 ctgaagtttt ggagtccata tgctaaatac actctgtctt tgtgttgtct gactcgtatt 360  
 tcatagatgg ctccattgta tctgagatga acaaactcan gatagtgtgg tgcccattgt 420  
 gtatgataga aactagaag ttg 443

<210> 12540  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12540

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 ggttttcttc aagccacact tccaaaagca gtgtaggggc ttttgtgggt tcgagcaaag 120  
 ggtttctggc agtattgaaa acaatgtggg acaatgtggg tgtcgaggga gcggtttccg 180  
 atagatttca ngcaggagga gaaagagaag agtgactgca aggttttcga gcgcgcgggt 240  
 tatgaaatgc caatgtttta acttataaac ataacaacat cggttgttta aggataaccg 300

atgttaactg aatatagtta acaaccgatt tggaaaaatt gatgttaaca tcatataggt 360  
 tacatcggtt tttcaaaaaa tcgatgttaa gatcaactcc ttaacatcag ttntgagaaa 420  
 actgatgtta actctatc 438

<210> 12541  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12541

agcttttaaat ctttatacat tattcccgt ctgataccac ttgttgacc ttgtggcctc 60  
 aataatctta agagggatag gcttagaata cagaagaaac aacaacaatc aatttaacaa 120  
 tgttctttan acatgcaaga cacaattgat tgcaacaaaa taaataagat aagggaagag 180  
 agaatgcaaa cacagtnta tattggttcg gccacaacc gtgctacgt ccagtactca 240  
 agcaaccac ttgagagttc cactaacttg taaattcctt ttacaagttc taaacacaca 300  
 aggacaacc ttcttttggt ttagagatt cntacaaca agagactcac agtctcttaa 360  
 ccaatctcat tgaataagaa gaatggaaga agaattctct cttcaagaga agaatattac 420  
 aatgaagatc atgt 434

<210> 12542  
 <211> 444  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12542

agcttactct gtcatatcc ttgattacgt catgcatctc tccatggcat cgtaaataagg 60  
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 gccttcattt agcatgcttt tgctcgcca actacatata ttctacttcc atcattcgca 180  
 tgtcatgttc actcgtgcat gatcctggca tcttcctctg cnnaaaaaaa aaaaaaaa 240  
 aaaacccng aacaaaaaga aagtcacacc acattcttag ttacatgtgt tgggtaccat 300  
 gatgatggct ataaaccaac catgttggga ttatacacca atttatcaag aaaaaaatga 360  
 ttgaaaatca tgtgaaagg ctacctaatg catggttaac taggaaaatg gtggctctag 420

ggcatctcat gtcaatctca taat

444

<210> 12543  
<211> 384  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12543

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caacagaata attatgacct ttccagcaac aggtacaatc ccgagtggag gaatcatccc 120  
aaccttaaat ggttgaatcc ttaacaacag caacaacaac aaccttattt taaaaatgat 180  
gttggcctaa gcagaccata cgctcctcca ccaatctagc agcaacaaca acaacagctt 240  
cagaaacaac aaacagttga ggctccttcg caccttcctt tgaagaactt gngacgcaca 300  
tgactatgca aaacatgcag tttcaacaag agaccagagc ctacattcag agctttacta 360  
atcagatggg acaattggct acac 384

<210> 12544  
<211> 402  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12544

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cgtcgaagaa cgggtgaaac ccttgcgaaa ttcttcacgg aaaacgttac ggaaacgttt 120  
cggaagcgcc tcggcttaga ttttcttcac ggaaacgatt tttccaagca aattcgaaag 180  
agagagaagt gccaaagggg ctgaaccctt ttcttcttca cttcctcccc tatttatagc 240  
aaaatagggg aggtggttgc cgcccagctc gccagggcga gctcagctcg ccagggcgag 300  
ccaggttgct tctccagaa gcaaccgcct tctggaggaa tattctggag ggccaagtg 360  
ggcctgggtg ctatntgcac caccattttt actaagtaca cc 402

<210> 12545  
<211> 439  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12545

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tttctaagct ccccttgtgt tatctttggc tttagagcttt gtcctccctt gcatagttac 120  
tataatttcc aagcaaacia gacaagaatt agtcatcagg attaaagcta agggaaaacia 180  
aaaagagagt gagaaggggt aggtggccgc aaagagaaga gatgagagat aggcaagaag 240  
agttgtgcaa catataatga aaccctatag tgattagaat agcttttata cttaggcatt 300  
tcttatgtta tattgatata atgggcccggg ttccgggtact tatggataaa aaaaattaaa 360  
ctaagcccaa ctagatgtac caattcctta ctctntcctt taatctaact acccgctcat 420  
ctaatataga cgggctaca 439

<210> 12546  
<211> 429  
<212> DNA  
<213> Glycine max

<400> 12546  
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tttggaatga gattcataat gaagaaatca actacaattt tgcataagcc aaagggttaa 120  
gcagagagaa tgttccaaaa cagtagtcaa atgctaaaat ctccctaggt cttcgcaagc 180  
tcacaagatt ccttcatcaa cgtctaaata atgtatccac taaaaaggaa accgtcaact 240  
agtttctttc cttccaaaag cgtacgtgtg caatatatat ctgatagtga cacaattggg 300  
gatgtttcac ggcggctgtg cgaccaccct ttctcaatac aactccacac cattcaaata 360  
tatgcatatg caagacaaaa atgaaagtag atacgttaca attaacttat catatcctca 420  
gatactacc 429

<210> 12547  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12547

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ttgatgaatg aaagtcttat gagatacact tcaaagttcc acttctttcc ctattttatt 120  
 ccttcaatth cgtgctcccc ccttctctct ttttttctcc ccattaaagc atcctcttca 180  
 agcttcttat ccaaggcaat tcttggtggt gaagctcctt ctctcttgge ttattcccta 240  
 gtggatggtta cctccccctct cctcttctcc tttgccttcc gctgcatctc catggtgaaa 300  
 aatcaccatt gaaggaccta attggagctc anagatccag cctccataga atcttcacaa 360  
 gcaagcttcc atcaagtggg aatcagagca caagagcttc aagtaggtgc tccttannac 420  
 ctccattaat tt 432

<210> 12548  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12548

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 gggattattg tgtatttgga gtgatgcaac tttcaaatg gaaaagaagg tcaagggaaa 120  
 tggtttcata tatttggaag gtacttgggt tggatggtt ggaaaagtga ctataatcaa 180  
 tatttactct ccttgtgaca taacttctaa aagaattctt tgggatgaag tcaaacaact 240  
 tagaactgcc aacaatgggg gtttatggtg tattttaaga gacttcaata gcattagaag 300  
 gaaatttgaa agagtangat tgtgtcagag gattcagaat ggaggcagcc tgaaggaatt 360  
 caataattgg attgttgact tggatgttga ggat 394

<210> 12549  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12549

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 atatatcgag acgctcgaaa ttgaatgttg aaactctgag ctgattcaaa cgacaataac 120  
 tttntactcg gatgtccgat tcagtgcagt aatatatcga gacgctcgaa attgaatgtt 180  
 gaacctctga gccaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcagg 240

aaatatatcg agacggtcga aattgaatgt tgaacctctg aggcaattca aacgacaata 300  
 actntttact cggatgtctg aatgagtgccc gtaatatatc gagacgctcg aaattgaatg 360  
 ttgaagctat gagccaattc aaacgacaat aactntntac tcggatgtct gagtgagtac 420  
 cgtattatat tg 432

<210> 12550  
 <211> 659  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12550

cctcatctca ctccgctaca tctcgtatct acaattctct cactancctg ntntattata 60  
 naaaaaaann nnccgagggg cctgattcat tcgaaaacac tcaattaana tatactctac 120  
 aatactcant nttgttatta tatgttaggt agacattaca ctattatatt ttatatattc 180  
 tacacctcac caatacgctg cggactgac tatgagctaa ctaactactc acgttattac 240  
 aataacgac aatatgcgtc gtcacctaata acaacatcac aatacctaac gacggacact 300  
 gcattcgtcg acgaacatct ccgcatactc gaatatctca ctagtactga ctgtttcaga 360  
 gctctatcat ctatacatat catgtcacta cgactaataa ccgtataccc actacactct 420  
 acctacactt tgacctcacg ctctcatcat ctaactcaac cacgtctcat gaatcttctg 480  
 ctatgcgac atcatatcac acactatccg atatacagcg acaaataaca ctcacataca 540  
 aactcatac actactacat acagcttaag tacatcttcc gtgggttcta actctcactc 600  
 cgtcccataa tgtacctatg tcctcaatat ccataatcgac caagttctct acaacatcg 659

<210> 12551  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<400> 12551

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 gacacaaaca aagaaccaag gcctaaaaaa acgaaagcag cgctttttcca ccggcggaac 120  
 agggcggaag aacgaaccaa gcacaacgaa gaaagaacaa taacgacacc aggagaagca 180  
 ggacaacaga agacgcccga ccagacacac cccaaaagca gagcaacaca gacaccacca 240



acgaacagac cgaagaagag aaaaacgcgg aagggaccag atcaccccga agaagatgga 300  
 cgacaaagag acaggcaaga accaaagagg aaccaccccc acaccggagc aacaaccgcc 360  
 ccagggacac aacccc 376

<210> 12552  
 <211> 288  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12552

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 tcagttgata acaatggcga taatgctttt gctgaatggt gatttgtaat ctgaacggca 120  
 ctcgccatct tgggactcta acgtagacct tgactctccg gtctcgatgc cacccttact 180  
 ttttactgcc agcggtgatt ccttggacaa ttcacgaata taatttcttc atatctttat 240  
 cgccatggga atcgttccat actcacactt agcctttatg gcttctta 288

<210> 12553  
 <211> 641  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12553

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 taagtacaca canacnnaaa ananaaaagg tggntttgaa ttcgatccan tangcgacac 120  
 tccannatac tnatacttac gagatcgcca gnctataaca cactattaga gcctccatga 180  
 tacacttgte tatagtacac tcatcacagg ctccattgag cgtggccctt tcttcatatc 240  
 taaaggacct gcgtcgcgga agaagcaa atataaatac acgagactcg actcacaata 300  
 ccaagcggtta gggatggatg gcttatccta acatagaata acacaaaatc acggagcacg 360  
 agaaacagag gcggatccga agcgcaattc tctcagtcac cacgtaacgc aacgcaccac 420  
 acgcacaaag acacgacgac agaagccaca cagcctccac gcaaagcgca cgacaccac 480  
 cactagatcc ctgcgatcaa cacatgaccc aactctacg cccaccacga gcacacgtta 540  
 ccgcacacac gccaccatca tagtccacgc ggacacgcac aacatcgacg acacactgag 600

acgaccaaaa cacacaccca aacacccata cacaattacc c

641

<210> 12554  
<211> 525  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12554

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atcgccaaca cngaccggac cggagcaaag agacgcagct gaagaatttc tcattaaccg 120  
cacaaagaac ggggccaaacg agtgtacaca ccgaccgcaa ccccccacacc ggacgcagag 180  
acacagcgcg caccaagaca cagcagtact catatagcgg acgcactcgc aagacgaaat 240  
atcagcgagc gcaacgagcc gccgcaagca tgaaaccgaa aacaacgagc caagaactcg 300  
atgacccccac acaataagca gccatgaagc aggtgtacct cgggacagcc aacgtctaca 360  
caggataaag aggaaaggcg ggttgagca caccgtcacc aaccatctct attctaaaaa 420  
cgacaacagg aaagcccacg ggcactacct tagaccaaca acgaggaacc gtcgccggca 480  
ggagaacatc ctcggggaga ggccgcccga cccgacaaaa ccgcg 525

<210> 12555  
<211> 596  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12555

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aacnaaaagg gagnntttga atcgatgcna ctgcgaaaca canacnnaaa anacgcggaa 120  
accaaagcaa gggaaacacc accacaccaa gttgcttatt ttaagggaca agacctgatg 180  
gaggcgtaat gaacagaccc aaatcgaagc agcaccacaa agaccaaagg acgaacatcc 240  
gcacccgtga aacaaccgaa agagaccac actcgaagac cacgatcagc cgggacggcg 300  
agatgcgaca caccagacac gcacaaatgc ggacacgaag gagacaggag atccaaccga 360  
cgcccacgca agccaaacca taaagccaga agctcgaggt catgggaaca gcacaagaaa 420  
ccccaacatg cacaggtgcg gcgagaatcg aacgaagaag gaactacact ggcaatccat 480

tgcgggcgcg aacacgaaaa ccacgaaagg acacgaggag cccgagagga caatacgacg 540  
 caatcaccac gcaacagaat cgaacgctac gatgacacac agtcacaacg aagacg 596

<210> 12556  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12556

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 aatttctcca ctgtattccg tgtcacaagt gatgaccatt tgaatttctc gatagcattc 120  
 gttgttcaat ttcgagcgtc tcgatataatt atgcgcctga atcggacttc cgtgtgacaa 180  
 gttatgacca tttgaatttg tcgagagcat ccgttggttag aattcgagcg tctcnatata 240  
 ttatgcgcct gaatcagaca tccgtgtgac aagttatggc catatgaatn tctcgagagc 300  
 atatcgttgt caatttcaag cgtctctata tagtctg 337

<210> 12557  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12557

cccccatacc acccaaggat tgaagaaaaa cacaaaaaaa nnnaacgggg tatctgcatc 60  
 cacnaannan cacgaaagat gggaaacaac ccgcggtctt ttcaagaaac cagggggaag 120  
 aaccgggaca agcacaacgc acagaaaaag cacagcgaag aagaaatagc gaaccaaacy 180  
 gcagacagag gaaaaacgca aaacacgaag aaacgagcac aggacaacaa tcaaacaac 240  
 cggagcggcc cacaaacca ccaccagcaa gaacaagaaa ggacaagggc cccggacgca 300  
 agcaaagacc gaaagagcga acaaaaaaaaa acagacaacc aagcacccca agacagccc 359

<210> 12558  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12558

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aaccaagctt gtcccatatc gaccaagccg gaatattcgt cagtgggaacc tgtgattcct 180

atcaggcgac tttgctgtct cagatagagg tactaacact agcaggggggt tggggggctgc 240

ccctgaaatt gaggaatatg gtgggcttgt gattatacca agtgggaatc gatatcaagt 300

tcaatacaat acagacgcta tatggctctg gtcacgatac cacggcgacg aactcataac 360

tatgcttgac aactacgtct agaaactagt gcaaacatct ggtaatatct atactcatgc 420

gcgn 424

<210> 12559

<211> 559

<212> DNA

<213> Glycine max

<400> 12559

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catacagtca cataaggcta tgtagtgagc ggctgttcga ttgtgtacaa gcaggattgc 120

acgtccagaa tatgctgctg aaccaactat gccttgatgg acacctacca gtgagatcac 180

atgcacacac agagcccatt gactcctgtc tgctcgcacc ggatgctcat acagacaaca 240

aagcttcctc tatatctatg catgacatcg ttgaatgagc acgtattgcc acaccaccaa 300

caccacatgc actatgcttt agctctgaca caacaccacc cgagaatgtg caatgctcac 360

tcttacatcc cgcgacaatg atcttgctgc tcgtcaatga ccgacggaca gactacaaac 420

atatccgtga gtgagtagtc atgtgcataa tggatgatga tgcacgagt gcagacacca 480

acactaaata tctccgttgt tacatagcta gcactcactg atattgtgtg tacagccgaa 540

tacagtggac tattcttcg 559

<210> 12560

<211> 795

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12560

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 ccctccgata gnancnancc ncnanannn nannnaanac cccancgagn acacgccaac 180  
 acacnngcgc cggcaacacn agacaagcan cacanacaat tatattttat agnacgcnac 240  
 aacgactaga acagtantca gtgaggcgcg cgcacagcac gaaacactat cactatgcac 300  
 aaaccaatgc gacaatacag agacatacgc gtgcagaccg acacacacaa cggaccacag 360  
 actgaacacg agcatcacgc acaacaggta gcagcagaac agagacacca ccacagacga 420  
 gaanagccac tcgcgtgcmc aacatacaca caatacagag aagacacgcm taacaccgat 480  
 aatgagcmca acgaacaatc aacgtacacc acacanacac atacacaaca caacatgcac 540  
 acgaacggaa cagaacaaca gcaagaagca cgatgacgcm gaacgcmgac gaacgcmgcm 600  
 caccgctgag agacgccaca atatctacaa gggagacaaa acgcagacag tcatacgaaa 660  
 ccaccgcmg acacacacta ccgaagggac aacgaaagca cgacacacat ccacagccgm 720  
 catgacgatc gcmgcmgacm caagaacgcm acacacacat gcaagacgaa cacaccgcmg 780  
 acgaccgmca caacg 795

<210> 12561  
 <211> 445  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12561

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 anaagaggtt gatcatgcat gcaanaccan aaaacccaaa ccaaggacac gacacaaaga 120  
 aaagcatttt tatagaacaa acacaccaga gcmgcmgcmca aagacacaaac accccgaaca 180  
 caaagcaaag cccaagcata acaccgaagg cacagcmgaa agccaaggaa agacgacact 240  
 aaaggaagaa caaaagcaac caacagaaaa cgaaagaacm acaaagaaac caaaacgmca 300  
 gacaaaaaca aactaacaac cccacggaaa aagccgmcaaa acaaggaac aaaatcaaaa 360  
 gaatgcagca aaagaacaca caacacacga ccacaaaaga cgaaacgmca ccaccaaaag 420  
 caaaaaagac aagcaaaaaa accac 445

<210> 12562  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12562

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 ggccattgcc tccctcgccc agtattatga tcagtcgttg aggtgcttca cctttggcga 120  
 cttccagcta tcacccatgg tggaagaatt tgaagagatc ctaggatgtc ctctacgggg 180  
 aaggacacca tacctcttct cagggttcta tccctaatta gctagaattt ctaagatagt 240  
 ccaaattctt gcgcaggaat tagaccacat acagcaagtc gtaaattgggg tggttggaat 300  
 accgagaaaa tacttggagg acaaagcaag aatcttggca cgtaaaggcg aatgggcccc 360  
 gttcatagac attctcgcg tgttgatctt cggaggaagt ctctttccan atgtggat 418

<210> 12563  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12563

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 ctggagggcc caagtgggtc ttattgctat ntacaccctt tctntactaa atgcaccccc 120  
 cttttattgt tttggtaatt ctttttccgt aacgttacga aactttacaa atttcgtaac 180  
 gatacttaat ttccttccgc aaggttacga atccttacgg attatgtatt tactctttnt 240  
 tagctttcga agaagttatg gaaactcacg gattgcgcac aaatacctct tttcgacttn 300  
 cgccatatta cggaatttca cggatcgcg aagcctgctg tcttttgagt tctgagacgt 360  
 atcacgactt catttattgt gcaac 385

<210> 12564  
 <211> 284  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12564

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 aaatacataa gaatacacgt taggaaagaa ggtcttnaca tgaaagagat gtgaatagat 120  
 tttggaatct attcgtcata cagagttgta tattggaaat acaaattact aaggagaatg 180  
 tataaacaca aaggataatg gaaataacaa tagccttaca agtatgcgtt actaacagta 240  
 ctcataccta taatacacat catnttcaga gtagtagcta acat 284

<210> 12565  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12565

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 gnataattct ttatgtgggt gtaatgataa ccccatggat caatgcatat accacaaggt 120  
 cagtaggagt aaaatatggt gtcttgtttt atatgtagat gatattttac ttgtagtcaa 180  
 tgatcgggggt ttgctacatg aggtgaaaca atttctctct aagaattttg acatgaagga 240  
 tatangtgat gcatcttatg tcatcgacat taagattcat agagatagat ctcgaggtat 300  
 tttgggtcta tcacaagaca cctatattaa caaaattcta gagagatatc atatgaaaga 360  
 ttgttcacca agtgttgcta tcattgtgaa gggatgatagg tttagtttga actaatgatc 420  
 aaagaatgac tctgagaggg acgagatgaa acatattcat tatgcttcaa ttgtcgacag 480  
 cctca 485

<210> 12566  
 <211> 731  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12566

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 acncagagtg acatttgtga cacactacta catcgacnaa tctagctcgt actcgtggat 120  
 tctctagagt caaacctgca agccatgcaa gacaacttaa ctattattct tgtatcacta 180  
 tctgaccaca cacaatacag ctaacgaggt ggtatgtatg cgcgagtcta cattagcgag 240

actatactcg taatgcctct aagctatcta tagatctact ctctacacag gacatacctc 300  
 ttaaacacaa cacacagata ccttacacaa ggtgtaacgc ctgacatata tgtgaggcta 360  
 acacagtcac acagaaggta ccttctcgac tacatatcat tactgacgag tatcggcgcc 420  
 acgctatcat ctgacatacg atnatctgga cggagacaat ccaacttcta taggatacgc 480  
 atgctgcccc cggacaacca accgctgtcg gagagacgag agctacgagc tctaccacac 540  
 agtacattcg gatgtaatga cactgactga ccacacggac agacgactac tcgctcaatg 600  
 catatacatc tcacgccaan atgcgaacca cacactgcac acagtgcgat gacgatgcat 660  
 agtaccatat acagagagga caatacagat gaattcgtgt acangcgctn gtagagcgca 720  
 caataccacc a 731

<210> 12567  
 <211> 566  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12567

ccccccccgc ccacctaggt gtgatccgca cgcaataaat tnaaaaacnn nccagggggtt 60  
 gatcgtgcat cctacaccta aaatcaccng gctgggggca aacgggtctat aactacataa 120  
 ttcagctctt gtttattnat gacctcaaag aggaagctgt gtgctaagag cggaatatata 180  
 tagcgcattc gcccaaaaac cacaagatat ggagagaaaa taggacaaac aaagaggaac 240  
 cgcacctggt gcgatgtagg acgtacgata catgaccac agggatagat atgctgagat 300  
 ccacgaccgt ggccgaaaaa gaaagtcatt agacactgca acaaatagaa ccggcctcgg 360  
 aacggcgccg ttctactacg tcacgaaaca cggcgtaagt cgaacagaga gaaagggttct 420  
 ataggagtgt ttaacacaca tacggctacc atacgccaac cgaacgaaga taattggtgt 480  
 tacagggaaa tacatcctca cacgtcatga agcgaagtct catgacaggc tcccaccggg 540  
 tcccatcatt gacagactaa acgccc 566

<210> 12568  
 <211> 317  
 <212> DNA  
 <213> Glycine max



<400> 12568

agctcttatt ttctttgatg aagatgaatc catggccacc tcatggactc ctctaaggac 60  
aatagcatca tttcttgac tgaattgttg ggagttagaa gccatcttct caatcaaatt 120  
cctaacctca gcatgagtc tatcaccaag ggctccacca ctggcagcat caatcatact 180  
cctctccatg ttgctaagtc cctcatagaa atattgaaga aggagttgct caaaaatctg 240  
gtgatgaggg caactcgac acaatttctt gaatctccac tatgttgctt gatgcctgaa 300  
atgtcttttc tgatggt 317

<210> 12569

<211> 484

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12569

cgcttctaca atctnccctt tntggatgat gacaaccctg atatcaagat acacatacac 60  
attnnttcc tagtcgatca ctcaactta tctccatatt ctccccctt gtttttgagt 120  
ttaagcttca cttgaaatta agttatttaa ttatgtgagt tcttgattta attcctattn 180  
tctttcccc tttggcagca acaaaaagcc aaagttcgta acaattataa aacatacata 240  
aatgactaat catacacaag acattttattg aataatctaa accaatcatg aagcaaaaac 300  
atgaataacc catattaata tataaaccac atagtcatat aacataattc ataaaaactt 360  
agtcatacta agcaaatagt ataagaagta ctagatgttc anatttcata ataatatagg 420  
ccaatacatg actagaaatc tacagtctaa taatattaca cataatagac atctatgatg 480  
atgg 484

<210> 12570

<211> 275

<212> DNA

<213> Glycine max

<400> 12570

cttataatta gttaggggtt tctctctgta ttgagctgac taaacacacc tagttgggga 60  
tttctaataga acagctgatg taaatactta atatctaatt gattatgttt tctatgttca 120  
atgcttcctt caatgcttaa tgattggatg cttattggct gatcatccat ttgtgtgcat 180

agttaggcga ctttagcatt gggaaatgta ctgtagcctt agaactttat tgaagcagga 240  
tcgaaactta gtcatacaag agtgatctgc ggatt 275

<210> 12571  
<211> 371  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12571

acaccatag agcatgatga tggatggctc anattctaac aaaggtcaac tcatcacttt 60  
caaattgagc ttccataact atcatgacat gtacatgaaa atcgaggatt tcacatcacg 120  
atatttcatg aaacttttat tatcaaaata attaccatt tgttgaacat atactataat 180  
tcaaagacta acatgcacag tcgtacactc acacagaatt gaccacaat attaaactat 240  
ataccaacg aaactaaca cattaacaca ttaacacatc taacaaatta acacacaccg 300  
catatctagc agaaccacag aacactgccc gccatactt aaacaacaca ttgtcctcaa 360  
tgtagcacia t 371

<210> 12572  
<211> 110  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12572

agctnggtcc tcaatggctt tatgaagact ctnnccaaat ctaaaggtag atctgggatc 60  
tctatcagag actatactag aaggaacacc gtgtagtcta actatctcac 110

<210> 12573  
<211> 485  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12573

tggtgtggagc ttcaatggag aatgaagaag aagagaatga caacgtgttg gagagagagg 60  
gctgtctgaa atttctgtct tgctaagtga ggagagagat aagctttttg gtcttaaata 120

aaaggggttct ctttntttct attattntat tcaagctctg ccacatgtcc cgatttgatt 180  
 ggagcaaaaaa gggcccactt tctctttntg actgtgaccc atactcagtc acaaaagaga 240  
 gaanaatctg acctttgaaa cgctaaaatc ctgcctcggt ttgcgtgccg tttctctgat 300  
 tccaatttct cgcgtttctc tgcgtccgtc ggggccagtt ttcgaaagca agctatatat 360  
 atatcataac gtcagacta aaaccccag cgtggtcaga ggttggttct gtaaatttaa 420  
 gtccacgaaa acgatgatct ttactaataa ttaggaataa cccttacctc gcagtatgga 480  
 ttctc 485

<210> 12574  
 <211> 477  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12574

agcttgcaga caatataatc tatcgtcacg ctaaaaatga gctacttttg tttgttaaag 60  
 taaactagaa aaaatatact ccatgtgtat ggttgatctt tgtactaacc aatatttatg 120  
 aacaatgata gacgttaact tctaagggtc acatgtaaaa aaaaaaaaaa atcaagggtc 180  
 tcaactaaat ttttcatctt aagataggcc tatatacaaa gaanatgaat gtaggcagta 240  
 acatccttca tttccatcat gtatacaatg ctatctccta tatttttagtc gacttacaca 300  
 aaaactctnt tgatttgctt aaaaccattt ctgtgacacc cacaccata tcaatttcat 360  
 atnttagttt aaaaaattga accgagaatt acccttgatt acataattac acatatgcc 420  
 tctctgtggt tntatacata ttacaaattt aaatcccatg aattcaaaca ttacgta 477

<210> 12575  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12575

atcaagatgc ggtgacgatg aatggctatc ctatatntaa gttattccct ttatgtgacc 60  
 tacttggtt acacaatact cagcacttgt aatgctatat agttntatag gtgctagtaa 120  
 tcttggtggt agattatata ctatttctgc tatgacaggt taaagagaga ataactaccg 180

tcattgttat taatntgtct ttaattatac tagcttgcaa cccgattgt tagattatat 240  
 tattcaacaa gtattgatat ttttattgta tgatccattg gcctcttctc gtaaggataa 300  
 tcattgagtc ataaaatggt tttcaccaat agtcataaca cattaatttg ccttattggt 360  
 gaaatgatat gatgctgact ca 382

<210> 12576  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<400> 12576

agcttctaga tgagttatgt ctgctaatacg gacatcctcg tgaaagttat gaccatttga 60  
 atctctcgag tgcttccggt gtttaatttc aagcgtctcg atattttatg tcctcaaatac 120  
 agacatcgga gcgaaatggt atgaccattc gaatttgctg agagcttccg tttttcaatt 180  
 tcgagcgtct agatgagtta tgtcaccgaa tcagacatct gagtgaaatg gtatgaccat 240  
 tcgaatttgt cgagagctat cgttggtcaa tgcgagcgt ctagatgagt taggtcatcg 300  
 aatcggacat ccgtgtagaa aagttatgac ca 332

<210> 12577  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12577

tctatataag ctgaaccatt tatcaataaa cacaagtnng agtttattct taatattaga 60  
 gtttatctct tttatcttag tgagagtgat tctcctaaat tcttgagtga ttcaagaaca 120  
 ccctggctgt atcaaaggac tttcacaacc tttgtgtgtt gccctcgctg gaaagagtga 180  
 ttctttcctt cctatcatct ccaccttgt tttttcaaac cacaattcca gaaaatccac 240  
 ctctgccccaa aattatctcg tgaccataac tccatttca cacactcaaa ttaagtgatt 300  
 cttgagccta aattgaatgt caaaacgaga cttttcacct cgttttgga tcaactcatt 360  
 tggagccctg tagcttccgt tattgccatt tctatatttc tgtccagcca ccacttagac 420  
 ctacgtttac catccattc atccatgta tgcagaaaac caccttatta agaccacga 480  
 gattaaccac cttat 495

<210> 12578  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12578

caaagcttgc attggaatt tttttctcat ccatcaagat ttagtacttc gagttatcca 60  
 ccatatagcc aagccaacgt tgagactatg ttatttgtca agttccagat accagtgagg 120  
 ttacattga caagtccagc ctcaaatc tccaaaagg ggagaagacc aacatcagtt 180  
 atgcatagag tccaatcaga ttaatatgct gaagttggag acacaatttg aacaatcatg 240  
 gctaggctag cactaccaa accagngcac ttttgaatga ctaaagattg aaagactcgc 300  
 aagaaaagta taacacttca tatcatatct ttgactccat gtacttaca gggaaaagat 360  
 ttcacttcat ttgatgtt 378

<210> 12579  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12579

gtgcgggttc gggagacata ggtcaagcgt tcgcgatatg cgatgatgat attccgagta 60  
 ctttggattt ggtacgacca tgctctcttg atttccagct gggaaattgg cgagtggagg 120  
 aacgccccgg catttacgca acaagcataa tgtaaaccctc tacggctcta aaagctctat 180  
 agttgggcct aggctgtaga gttttcattn tgtaaggct ctgtgtcttt tgtctttgaa 240  
 tttataatac aaggatcttt cttcatctgt tcttggcttc taccattct cattcatttg 300  
 catgtntact tcttntcta aaacggcaga ttcatgacg agtcnccga aggtactaat 360  
 acctngacc cgtctatcaa c 381

<210> 12580  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<400> 12580

agctaggcac tttcttgctt gagtgaaaat ccatgttctc gcccaaccat ggatcaagtg 60  
tctaagaagc ttatgatagg gaaatcacct ttagcaaacc agttccctat gaatagactt 120  
ggacaacttc tctaaggact aaactaatte agtatttttg tttcttggtt ttcttattta 180  
tacacctttt atcctttatc ttttggtgta agcttggttg atttgtcatt gtaatacacc 240  
atgtataagt tactagaggt cgagagtagc tagattatcc ggttcatata ctatggcgat 300  
tgggagaatg aattggtaca ttttcttttc tggaaatcct tgggtgtagtg tgagcatgca 360  
tatgtacaag ttgttggttt gaataaaaga aaagtaaaaa tgattgactt ataaattatt 420  
gccatacaaa gtatcccatt ttgggatgga 450

<210> 12581  
<211> 415  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12581

tgctaatgcg acatgtggag atgcgtaagt agaagctntt ctacaaattt gtacgccttg 60  
ntntaatttt attnnttttg gcacagaaac caccttgtaa tttaccagta taattattga 120  
atatttgctt tttatatgta tattgntgca tgcagtgcatt tntgcaagcc tggaacactt 180  
gatcctgaaa aagtaaaagg gaaaatagtg cgttgtagta gagatggaaa aataacatcc 240  
gttgccgagg gtcaggaagc tctatctaatt ggcgccgttg caatgctttt gggcaatcaa 300  
aatcaaaatg ggagaaccct tcttgagag cctcatgnt tgtctactgt gaccgacagt 360  
gaaggcattc aaatcacaac gccaccaga tcgcagaacc cctacgtaat atacc 415

<210> 12582  
<211> 391  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12582

agctttgtct gatgagtact ggctaattggc aatgcatgaa gagctaaacc agtttaagag 60  
aaatggagtg tgggacttag tttctaaacc acctctataa gtcaattaaa caaagggtgt 120  
ttgaaacaac ttgataattc acccatgtac ggatacgaaa tattgttgaa gatgattcaa 180

ccgagaataa ggaatcaact atgatgaaac atgcgctcca agtgcaaggt tagatgctat 240  
 aagaatgcta cttgcatttg catgtattat ggatttcaaa ctttttcaga tggatgtaaa 300  
 aagtgccttc ctcaatggac gcgttgaaga agatatgtat gtagatcaac cactanggtt 360  
 tttggactat gaacatccta accatgtcta c 391

<210> 12583  
 <211> 514  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12583

gcgacactac tagatactaa gctanagtat gcccagagtc ttcattcccta tgagatgttg 60  
 ttgaagtatt gtcaatcata atttccattc cttggattac ggagttgaac caagctcaag 120  
 ctnttacaaa aaggttcatc aagtcaagtt gaaatatgga agtaaccgtc ctgcataatt 180  
 ggngcaaaaag atgaatcgag tcacatcact gcttcgtcta ctgccaaaca tatataggat 240  
 tgttgatgtc cttgttactt ccagtttcac cttgacaaag atgtcatgga ccatgttgaa 300  
 aatctaaatt gattcaaccc catatcctgc gtaaaaattc gcaatacttc gactgtacat 360  
 cattcgcatg cagtccatgc tttcattggg tgcattgctc attgcattct ttccttgaaa 420  
 aataatataa aatgaaataa aatgaactca tcaaagagaa aaggacacgc tttacngcgc 480  
 ccttaccgaa ctcgtactat agctagagta atgg 514

<210> 12584  
 <211> 183  
 <212> DNA  
 <213> Glycine max

<400> 12584

agcttcaacc tatagggtgac gtgaccattc cagtgttgga gaagatcgac gactatgcct 60  
 acaagattga ctgcctagt gagtataatg taagcgccac tttcaatgtg tctgatctat 120  
 ctctttatga tgcagatgga ggagtcttgg atttgaggac aaatcctttt caagaatgag 180  
 gga 183

<210> 12585

<211> 638  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12585

caccccgac tctnctatat ccgncagagg agatcngagt antgtcgata tagcaanaaa 60  
 acattanacn tannnnnnnn accagagtgg gtttgaattc atagcantng cgacanncan 120  
 nanannnaaa cncaagcgtc nntgagaanc ntgctcgaga agacagagcg gagctacact 180  
 ctccnctcta ataactaagc tcaattcctt gagaagcgtg cttgataaga tatctagaga 240  
 agctagagca cagccacaca tacatctcta gaagctaagc cccccagga tgcaacatgg 300  
 gaagcagaaa catgcactac tcacggatac tcggacagtg ggcaaataca aggcgcaaac 360  
 gatcgataaa ccaaattctaa tagttacca gataatcggc ctcatactta acacatgggc 420  
 ttgatagata ctctaattgcg catgagaacc ctcacgccct ccgttggatg tgacaacaca 480  
 aatacggagg agccgatcac cccatgcccg cagcgggtat gaatgcatca naagcgacat 540  
 gacctgacgc attacatctc acgagagcat ccaatgcccg aatccactgt atggaacaca 600  
 agggccacaa ccgacatccg tgcgaatggt atcacacc 638

<210> 12586  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12586

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 taaggaggat aagttacaaa gtgaactgat cagtcgtgat gctcattgtg gaaccattga 120  
 tcctaagtat gatgtaaagg atggattaat atttagaana cagtaaattg atgattcctg 180  
 aaaattcagc tctgagaaac aagaatttac aagaatttca tgacactata atagggggcc 240  
 atgcttgaag aacaaaaacc atggctagaa tttgtagtca attttattgg cctaaactgc 300  
 aagaagatat taagtcctat atcaaatggt gcagtatcta tcaacacgct aagggtggatc 360  
 aagcagtacc tgcattgatt ctgcagcatt acccattcca caacatatct gagaggacat 420  
 tgctatggac ttcactacta ntctaccat 449



<210> 12587  
 <211> 484  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12587

tactcagctt anacttgcac anaggagttg agcaggtaac anagaatcgt cttcattctc 60  
 ttagagggtga ctntgagcgt tcgtttatgg aggagtccga gtcaatttct gattattggt 120  
 ctcgagtatt ggccgtagtc aatcaactta aaagaaatgg tgaagatggt gatgagggtga 180  
 aagtcatgga aaaaatactt cgaacttta atccaagttt tgacttcatt gttaccaaca 240  
 ttgaagaaaa caaggattta aagaccatga ctattgagca actaatgggt tccttacaag 300  
 catacgaaga ataacaaacg agacaaatta aacaatagga ggctacggag caactactac 360  
 aactcaacgt ataggaagca aactatgcaa attacaagag ccaaacagga cgatgtcgtc 420  
 gccaatatcg tggacgtgga cgaggacatg gatgagaatg aagatgtggt tacaacaacc 480  
 actc 484

<210> 12588  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
  
 <400> 12588

agcttgatag cacgcatata ctaacgtcgt cttctgcgcc cttcgtcaat cgcggccgac 60  
 aagcccgttg acacgcggtg atttacgtca tcttcgcgc tcacaagatc tgtcactctg 120  
 attcttgagt cacgtgact ggcggaata cccgagtgggt tatccgtata aacttggtgc 180  
 tatctgtaag acgaaaaact tgatagcacg cagagactaa cgtcgtcttc tgcgcccttc 240  
 gtcaatcgcg gccgacaagc ccgttgacac gcggtgattt acgtcatctt ccgcgctcac 300  
 aagatctgtc atactgactt ttgagtcacg ctgacgggca gaaataccg agtggttata 360  
 cgtatcaact ttttgcattc tgtaagacga atagcctgac tacacgcaga gactaacgtc 420

<210> 12589  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12589

gttcgtctta cagtatgcan aaagttatac ggataaccac tcttgatttc tcgccccgtca 60  
 gcgagactca naagtcagta tgaccgatct tgtgagcgcg gaagataacg taaatctcca 120  
 cgtgtcaacg ggcttgctcg cgcgattga cgaagggcgc agaagacgac gttagactct 180  
 gcgtgctatc aggccttttcg tcttacagac aacaaaatgt ttatacggat aaccactcgg 240  
 gtattgtcag ccgtcagcgt gactcagaag tcagtatgac atatcttggt agcgcggaag 300  
 atgacgtata tctctgcgtg tcaacgggct tgctcggtcgc gattgacgaa gggcgctgaa 360  
 cactacgtt 369

<210> 12590  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<400> 12590  
 agcttccatt gctcattttc tagcatctcg atatattatg cgccttaata ggacctccaa 60  
 gtgaaaattt atgaccattt gaattgctca agagcttcca ttgttcaatt tcgagcgtct 120  
 cgatatatta tgcacctgaa tcgtacctcc gagttaaagg ttaagaccat ctgaatatct 180  
 taagagcttc cattgttcaa tttcgagcgt cttgatatat aatacgctc aatcagacct 240  
 ccgagttaaa agttatgacc atttgaattt ctagagagct tctgtgtgtc aatttcgagc 300  
 gtctcgatat attatgtgcc tgaatcggac atccgagtga atagttatga ccatttgaat 360  
 tgctcaagag cttccgttgt tcaatttcag cgtctcgata tattatgcgc ctcaatc 417

<210> 12591  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12591

tacagtatgc ccgagtcatt catccctatg agatgttggt gaagtattgt cgatcagaat 60  
 tgccattcct tggattatag gggtgaacca agctcatgct tttaaaaaa gggtcatcan 120  
 gtcaagtga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat gaatcaagtc 180

acatcactgc ttcgtctact gccaaacata tttaggaata ttgatgtcct tgttacttcc 240  
 agttttcacct tgacaaagat gtcattggacc atgttgaaaa tctaaattga ttcaacccca 300  
 tatcctgcat aaaaattcgc aatacttcaa ctgtacatca ttcgcataca tccatgctnt 360  
 tcattgggtg cattgctcat tgcattncct tcttgaaaa taaaatanaa taaaatataa 420  
 tgaacttaat cattgggtatc acaaagaaaa aacatgctnt acggcgtcct caccgaactt 480

<210> 12592  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12592

agcttcaaca ttatactcac ttccaggggtg ctggaactac ttcacatgga cttgatgggg 60  
 cctatgcaag ttgaaagcct tggaggaaaag aggtatgcct atgggtgtgt ggatgatttc 120  
 tccagatcta cctgngtcaa ctttatcaga gaaaaatcag acacctttga agtattcaag 180  
 gagttgagtc taagacttca aagagaaaaa gactgtgtca tcaagagaat cangagtgc 240  
 catggcagag agtttgaaaa cagcaggtct actgaattct gcacatctga aggcatcact 300  
 catgagttct ctgcaaccat tacaccacaa cagaatggca tagttgagag gaaaaacagg 360  
 actttgcaag aggctgctac ggtcatgctt catgccaaag aacttnccta taatctntgc 420  
 gctgaagcca tgaacacagc atgctacaat cacaacagag tcacact 467

<210> 12593  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12593

nggagaggat gcttcaatgg aggaaaagaa agagggagag aatgagagat gagggagaac 60  
 gaaattgaag gaagaaaaag ggagagaagt tgaactntga gttgtgtctc acaagactct 120  
 cattcatcaa agttacaaaa agtggttacac atgcttctat ttatagacta ggtatcttcc 180  
 ttgagaagct ttcttaagaa aacttccttg agaagcttct ttgagaaaac ttccttgaga 240  
 agctagagct tagctacaca caccatcta aaaactaagc tcacctcctt gacaaaatac 300

atgataatac aaaaaaanagt cctactaca aagactactc anaatgcctt gaaatacaag 360  
gctaaaaccc tatacta 377

<210> 12594  
<211> 447  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12594

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tgttgacttg accaacgctg ttattggaat gctgcgacaa tctctcaaca cttattcac 180  
acattctgat aggttgggtg tctgtgacc atatcgatc ccagatgtat cgtaagccat 240  
gctccatttt tcctttgaaa tgcgatcaat ccatcttgct atggctggac tcagttgacg 300  
aaatatttct aagttttgat caaacacatg cttgcaagga gtgtacgttg catcanattt 360  
gttatcatca aaatntgtac gtagacatca aactcaaatt aaattaatgt ataaaataaa 420  
ccttacccaa tttcttgaac atctctt 447

<210> 12595  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12595

ntaacanagt atccagntng agtgggttgg tcataatata aaccacttgt tcttgtgtcc 60  
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catcaatatg tttataacga ccatgcttta ctggattctt cgaaagctta atagcagagc 180  
tactatcaca acaaattaca gtagcctggg tctgcatttt acacaatttt cccaacaccc 240  
ttttcaacca tatggcttga caagcacacg atgctgcacc tatgaactct gcctctgtag 300  
ttgatagact cacaattggg tgtttctttg atgaccaaga gacagcagct gaacacaata 360  
agagaacata acccgaagta ctttgtctat catccaaatc tcttgcataa tcac 414

<210> 12596  
 <211> 193  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12596

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 aacatgggtat aatgcgtcct cacaattcac tttcagatgt agctaaaatt aatctctcac 120  
 ttttatcaaa ggattcaaga tttttgctcc gctgatatcc gacttcaatc tttacagaa 180  
 tttactattg atc 193

<210> 12597  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12597

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 tgttggggcaa gagccacaat tataattgca taagtcttgg cagtgggaga agatatagat 180  
 gaaccttttg ttctcatgaa ctcaaaaaga tctacagcct ctggtaccat acctgctttg 240  
 cagtatgtat caatggcagt gttgtacgca taattgtcat gcctatgacc cagttcaacc 300  
 atttcttcca gtaatgtcat ccctctagtc nggtgtctaa ccctacacca ccataaacg 360  
 aatatattat acgtctccgc attaggcttg actggtttac tcattatctt atacagaagt 420  
 tcagcatcct caaccaagca acattgcac agt 453

<210> 12598  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> • unsure at all n locations  
 <400> 12598

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 cacagtggcc aaggatgcat gggagatcct gaaaaccact catgaaggaa cctccaaagt 120

gaagatgtcc agattgcaac tattggccac aaaattcgaa aatctgaaga tgaaggagga 180  
 agagtgtatt catgacttcc acatgaacat tcttgatatt gccaatgctt gcactgcctt 240  
 gggagaaaaga atgacagatg anaagctggt gagaaagatc ctcagatctt tgcctaagag 300  
 acttgacatg atagtcacta caatagatga ggcccaagac atttgcaaca tgagagtaga 360  
 atgaactcat tggtccttcc aaacctttga gctangactc tcggatagga ct 412

<210> 12599  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12599

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 gaagcttgcc tcaaagaggt ccaggaagga caaggcagcc gaaggaacta gttccgctcc 180  
 ggagtatgac agtcaccgct ttaggagcgc tgtacaccag cagcgcttcg aggccatcaa 240  
 gggatggtcg tttctccggg agcgacgcgt ccagctcatg gacgacgaat atactgattt 300  
 ccaagaggaa atatggcacc ggcggtgggc atcactgggt actcccatgg ccaagtttga 360  
 tccagatata gtccttgagt tttatgccaa tgctttgcc aacagacgagg gcgtgcgtga 420  
 catgagat 428

<210> 12600  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12600

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 gcatctcaag tgaaagatac cctctttgtc ccttcttata agtatctttt caagttgttt 180  
 ttgcattaat tattttttta cccaaatacc tttaattact ttacaataaa tggtatgcac 240  
 taaaaagata aatgcatgat ctctcttata aggattagat aagaagacta gtacacatta 300

attaggcggg aaagtaatta agtgaataaa gagagcttga gtccaataa ttctaaggta 360  
gttntggtta aataaaacan attgttaaca aatataatgc tactaactat attaactaac 420

<210> 12601  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12601

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gatttgcttg tgagagttta tgctogaatt tgggctgccc catgtttgat actttacata 120  
gaggtagtgt ggaaaacacc ttgcaatagt gtgtatacat aggtaaatat aaagagcatg 180  
aaattcctag caaagtgtga atgattgtct tcctaaatga atgtatgata gtgtggaata 240  
cctttttgaa tgcaaatatg tgcaggatgt aattagcttt ccaatatgca tataaataaa 300  
tatgagtga acagtaaaaa tttgtatggt gtacttcaca tgtatgtaag tagtttgtga 360  
tagcaaatgt ttangatata aattacgtgt aaaagttgac gcaacacttt gagcatg 417

<210> 12602  
<211> 467  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12602

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tcccactcca agtaggcctc cggatcattc tttcctttaa atggagggaat gttgagttta 120  
ataccatcaa ttcggttttg tctaggaaca ccatcattcc ctcttctcct cttttcttct 180  
tcattatgat ctctattctc catttgatcc aacctctcat ggagcgcac atctcgttgt 240  
ttcattaacc tctccaaatg ttgcatcaaa gcttgcatth ggaattgcga aagccccact 300  
ccatcattag gattagtacc tgacatctca nacaacaaaa tcaaacgtaa caagacaatt 360  
atagttgctg tttgaatacc tcaccactc aagtgtatca cacaattatg gctnttctct 420  
aatgaaacac ttcttgcttn taccactcta attcnccttg agttctt 467

<210> 12603

<211> 406  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12603  
  
 gctctagatg aggggttcaact gtaatcaagc aagtcggaga cctatcatga tcccagattc 60  
 acctncgctc cttatgttcc catgaacccg ggtatagggc cttttttcac tcacagtgtg 120  
 tgcaaatagt gttggtgttt gtgtgcatca aatgaataaa tatttaccct atgcatacat 180  
 tntaaaatgc actaacagca acatagagtt tatatacata agaacataat gaagggaaac 240  
 caacaaaggg ataagtcatg gtaaaacatt gcacaagatt aaatggccta actctctaaa 300  
 aacaatcccc agtggagtcg ccaactgtcg caacctaccc ttcggcgggg gggcgacgcg 360  
 agactcgcgg gatgctgtgt ccacgaaagg aatcgcgcgc gagtcg 406

<210> 12604  
 <211> 519  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12604  
  
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 tcacctgcgg catgcaacct gcactcattg ttttggttaa ttatccatta ctgggccccg 120  
 cctgtcttaa taaaacatta gttctcttcc ggagaaacaa cacataattc ggacttgttt 180  
 acaccgttca ttaatataca gatgcacatg cccactgtat acgagtattt ttttgttccc 240  
 tgggccttct tatatcgtea aacagtatac tagaagaaag ggtgcatcta ccatattata 300  
 taacnggnt atttatatct tgggatctaa cggtcgatat aagacgcact cacatattgc 360  
 ttcatccgct ccgcttttta accaggaaac gtggcgactg ttcaaaaacg gtggcgacta 420  
 ttttttcctt ataccaccat ccagagaaat atcgtgagga gaacctcctc tctcactaaa 480  
 ctattgtcgc acaacaacct aaacgagatt ttggaaagg 519

<210> 12605  
 <211> 522  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 12605

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nggtagattc tttaatatca ttgaagaata taatgatgtt tatattagat tcacatttac   60
caagttccat gcatacattn gtaatatata tctttgtaat gttntatatt ttctgttggt  120
cccttctaatt tatntaatt gtttcttgat tgtcagttga ctgaacaaaa attaacacga  180
aaggaggaag gtatgtcagt ggtttgtaa acttatatat atatatatat atatatatat  240
atatatatat atatatatat atatatatat atatatatat atatatatat atatatatat  300
atacatgtac ttacgtgcat gtntattgtt acatttagag agagatagag aactgataga  360
aatcatactt gtgttctcat tattgatctg atgacacaa canatgtcta tatatagagc  420
agagttcaca atgaggccta tctctgactc taacactcac tatctgagtg tgtgagtcac  480
tcacagactc acagcatact atctaattaa gaagagacag cn                        522

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<210> 12606  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12606

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caaccctga tgttgatat gtttccaaaa tagaatgtat aaggagtttt gttcaattt  120
ttctgggtat tatattatta tttccccctt ctgggttcagt tttatgtcat ttaaagtttg  180
ggaaaatagt gggatatgaag catatttatg ctagaggggtg gtgtttgggt gtgttatctt  240
ttgtatggct tctcctttat attgaacttc agactaagaa gtatttgaag catatgagtg  300
atcttaaatn taacaatttt nttcataatt attatagcca agtctgcatt ggttttaatt  360
ttttctaaac tataactaatt tact                                          384

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<210> 12607  
<211> 481  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12607

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tttgcaagct ggaatcattt atcatacctc tgatagccaa tgggtgagtt ccgaagaana   60

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ctggcctccc gtgataaana atgagaagga ggagttgatt cctacttgng tgcagaacag 120  
 ttggagagtc tgcacgcact ataggaggct gaaccagggt accaaaaagg accattntcc 180  
 actgcattca ttgatcagat gcttgaacgc ctggtaggta aatctcacta ctgtttcctt 240  
 gatggttntt ctggttatat gcaaactcact attgctcctg aggatcagga gaagaccgca 300  
 ttcacctgcc ccttcggcac ttttgccat aagaggatgc ctttcgggtct gtgcaatgcc 360  
 cctggtagct tccagcgggt catgatgtag tagtttagtg atattttaga aaattgcata 420  
 gaggtgttta tggatgattt cactgtatat gaatnctctt ttcataattg tttggatagt 480  
 c 481

<210> 12608  
 <211> 462  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12608

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 gatattctta gaaggggggg gttgaattaa gatattcgaa actttttccc ctaattaaaa 120  
 atctatctta cttntactt aagttatgaa ttcccttaat gacaatcttc ttaaataatta 180  
 attcaaatga agcaacttga atatgaatat aaagcaataa taaataaagg agattaaggg 240  
 aagagaaaat gcaaactcag ttttatactg gttcggccac acccttgtgc ctacgtccag 300  
 tccccagca acccgcttga gagttccact aacttgtnaa ttccttttac aagttctaaa 360  
 cacacaagga ctaccctatc tttgtgttta gagattcttt acaacaagag actcacagtc 420  
 tcttaatccc ttanagaatg agaagaagaa gaggaacaaa tc 462

<210> 12609  
 <211> 497  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12609

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 cccgagtgga gaatgatgaa ggcccaagtg gagaaggatg aangcccaga ggcagagaca 120

ctatcaagac tatcaattgt tgctaaaggg cccaaactaa ttgaaggccc aagttaaata 180  
 agttcttagt tataatztat ttttattgta attntgacct aaactgttta gaaggcccat 240  
 gtctattttt atctttttgt tcagctacac tataagtatt ggtttttgtt ntgaataaga 300  
 aaacttttgg catttgataa agttgggtga gagtttctct ctgggttctt tgttgaacca 360  
 attatcagac ttatcaaggt aatccttgtg gtgtctacct agacttatct tccttcaccg 420  
 gaagtggcgt ctaccctgac ttatcttctt tcaccggaag tgggtgtctac cctgacttat 480  
 ctctcttcac cggaagt 497

<210> 12610  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12610

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 tattaatggt tgcactcttag tctctatctt ttcatatgta catcatgcat catcatgtag 120  
 aggttaggaag attgttcact gcataaaact ctatgtttta atcaattata aggctgattg 180  
 taatcgatta cacaagtgtt tgtagctcgc aaagagattt tagttgctgt ttaatcaaat 240  
 accagttaac cataattgat tacatagttc agttgagacc atgtctgggt tttcatcagt 300  
 ctctactcta atcgattacc aggggatcat tatcgattac ttcattcttg aaagtgggtcc 360  
 agaagtgtca ataacactta accgactaca tcaagaatta atcattacat tgtc 414

<210> 12611  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12611

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 cacatatatc tcaagaaaga tatattatat aacatcttat cagacacaat ctctataact 120  
 tggaagagaa ttccataaac ccatagaacc atcacatata gacctctaan aaaaacaaaa 180  
 atcaagacta aaaaatttca agatagatgt anaactaatt tttattntca tatgactatt 240

tgatacatgt aaattaaaat gtcattatat attaataatc aagacagtaa tttaattaca 300  
 ataattagta cattntatgg aaataaatat tcaaaatgaa nacaatatat ntacaagtgt 360  
 tcaaatcgat tggaatattn tttcttttct accgcctaata cntaattccg aatatttaat 420  
 tgatttgaat atttata 437

<210> 12612  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12612

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 aaatatgatc atcctgcttt gacaaataaa aagcctatgg caaatagaga ggatgataag 120  
 gaggaaggaa cccatgttgt gactgtcggt tctacatgtc caaatttct agcaactcaa 180  
 cagtgtcatt actcaaccaa tatcagcctt tctcattacc caccactcag tcatgcacaa 240  
 aggtcattcc taaatcagcc caaagcttgc ctttcgtgca ctcaatgcc aacaccaccc 300  
 ttaacacaaa ccaaaacacc aaccatggag ggaggtttcc agtggaaaag tgatgcaatc 360  
 ctaccccgcag agggcattgg c 381

<210> 12613  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12613

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 ttgatntagt ctcttctang gttntgcac cgctaagcga gttggctgcc tactaatgt 120  
 gaatgtataa atacatgatt ctgatgatgt caaagaagaa tcaaacaagg tggttgcttc 180  
 aaaggataag cattgcttca agattaatac aagggttgctt caacaaacaa agccttgctt 240  
 caagattaac tcaagatcaa gccttgctc anaacaaagt gtttccaaga catccaaggc 300  
 tctggtaatc aattactang cagcgtaatc gattaccaga agagaatattt gaaaaatagc 360  
 tggtaaaaag ggTTTT 376

<210> 12614  
 <211> 562  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12614

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 gtatcacata gaagttgggt cccatctcta ttagtgatga cattagagct cattcgtgag 180  
 aaacactctc tgatttcgga catgatgac tatcgacttt aagaatgaga tacagatgct 240  
 cactttgtat caggaacatt ttcttgctcg agacgtctta tgatgtctta aagcatgact 300  
 caagattcat gggccttgct tacatgatgc tagatgaaga ttcattgactc atgatactag 360  
 agtgcagaga agactcaatc aagatattgc tgattaggtc ctactttata tagcgtgaca 420  
 catggatgct tctctactca tcgttgatga cgagtcatta ctctctggaa tcgacactag 480  
 atagtcta atcgtgtgcagt agctattgct cttactatgt ntcgactgaa ctacaccgtc 540  
 caattgattt angaagctct tn 562

<210> 12615  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12615

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 tcaagaaagc ttctcaagga agctacctag tctataaata gaagcatgtg taacacttgt 180  
 tgtaactttg atgaatgaga gtcttggtgag acacaactca nagttcaact tctctccctt 240  
 tntcttccct caatttcgtg cteccccctc tctctttctc tccctctttc ttttccctca 300  
 ttgaagcatc ctctccaagc ttcttatcca aggctcatct tgggtggtgaa gtccttctct 360  
 ccatggctta ttccttaatg gatgggcgct cctctcacct ctnttccctt gtcttctgct 420  
 gcattctcat ggtggaaaat caccattaaa ggatcccat gaagctc 467

<210> 12616  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12616

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 cttgectcca cattgacaag gtcttgcttn ctacgtgtgc aaagatttca cgctcaccat 180  
 gatggcctat tcatactacc acaagtaaca gagcattgca tanacaaagg caaacacata 240  
 agacatacat actgtgcana atntgtcaat gaaggaaaag catgtgcatt aaagagaaat 300  
 aataattgcc accattacaa ggccctatgca gccaacatcc aacaatgtag aaaagaagga 360  
 aataaagaga gtgaagccta aacttaagcg tcatttgctt tgctctcggc accctgcttc 420  
 tcactctgtaa gcctactctt cacaacaact tcttcttt 458

<210> 12617  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12617

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 agtttcttct ttgacacaat cttaacgtga ataatactgc aggaggtaca atgctagaga 180  
 tagtcaaaag ttgcatacgt accaaattca ctagtcaatt tgtggatcta gttgctataa 240  
 gtaccctcta ctccatgggc aagattatta aatgtcaaat gtgtctttgt tcttttatct 300  
 ttattctaag ttgcgaaaat tcattgcatg aggcctccac ctacttnggg ttgngaaga 360  
 tggatgtaca caaccttacc ctanataaat aggcccaatt cttttaat 408

<210> 12618  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<400> 12618

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ttaaacatcg gaaactctcg cgaaattcaa atggtcataa cttttcacac ggatatccga 180

ttcgggcaca taatatgtcg agaagctcga tattgaacaa cgaaagttct ttagaaattc 240

aaatggtctt aacttttcac acggatgtcc gattcaggag aatcacatat cgagacgctc 300

aaattgagca acagaagctc ttgagaaatt caaatggtca taacttttca cacggatggt 360

agattaagga gcatcacata ttgatacgct cgaaaatg 398

<210> 12619

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12619

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actgtccttc cttcccgtta tgcttctttt catgtccgcc tgagtgggct tatagcctan 120

accatacttc ccacgatttc cttgggtttt tatcaggcta gttatgccgc cattgtcttt 180

gcctaaaccc atcccgggtt cataaccgtt ccccaacata actcgggcca tcattaccgc 240

cgcacgagac agacaagggt gcccaaagag ggagtccacg gaggaatgc tgaccacctc 300

anaagactgg aaagcgggtt ctaacgattc ttctgcggct tccacataag gcatggagga 360

tgggcagctt accaagatat cttnctcgcc tgacacgatg accaagtgcc cctccacta 419

<210> 12620

<211> 753

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12620

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ntactatnng tgttctagac gcannnnnncn tcnnnnnaag agagancgga tggattgttg 120

acgatctntt agaagagacc cgccacgaat aangaaataa atccattaac taacataata 180

gagttaatag tnatattaag aatatgattt gttatttgnn aaatattagg gagatagaag 240  
 attagagcga gagatgaaga cttagagaag taatagtga tagagtgata aagctaagt 300  
 tctaagtgt gtatgcacaa cgaggtatga tacaggtata gtgagaagaa ctaatgaatg 360  
 tgctgtgtgt atcagaatag tggaagcata gtaagtacat gtgtcgatgg aatattatat 420  
 agatggaata taggaagtag cggagtggga ggatggacga gatgatagaa gtacgagtaa 480  
 tatgttagag gtggacagtg gttgtgacac atagcagata gagtactgtg gattgagaat 540  
 gatatagcga ctatatgagg cgatatataa tctgagagtt atgagtatat agatatgaan 600  
 agactgaaca tgatgaagag aaatgagaga taggaggacg gctgagagtc aagcgtagta 660  
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<210> 12621  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12621

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 cgaggcgctt ccgtaacgtt tccataacgt ttccgtgagt gatttcgcga aggttttcga 180  
 ccgttcttcg acgttcttca ttcgttcttc agtcttcaac gggttaagtac ctcaaaccaa 240  
 gcttttcaat tcattctatg tatccgtggt ggtccacact tggtttcatg tattcctatt 300  
 ctggtttcat tcactttnta taccctctt tgacgtgctt aagccatttt atttaagtca 360  
 tctctcgctt aacctaataa taatatagat gtccaccgat c 401

<210> 12622  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12622

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gcctttttctc	atgtttttat	gtcgtgtttt	ttgcttggaa	ctggattgtc	ttcattttatt	180
gctatagaga	ccagtagaag	agatacgcac	ataggttttg	tgaaatgtgt	ttatgtctct	240
cctactagac	catgccataa	tggagaggaa	gttaactctc	tttggtcgaa	tgtgtttcaa	300
cacacatttt	gggaagagat	aacacgagta	ataggttggg	tctcacagat	aaagtattta	360
gcttatccta	atgagatgaa	ttgagctatg	tactcc			396

<210>	12623
<211>	393
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      12623
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atatacatat atttctcgct ttcttaatat atagtagcta gccacaatt gtcaaattat	180
gcaatcaaga taaatggatt cttgaatcac ggaagtgctt gtgcttacac ctatcaactc	240
cttgatatctc acgagcctct ggtaaataaa ggtgataacc acctgtanaa cacataatct	300
aaaccaatca aagacttttg attgaagcat atatgagcaa acattcagaa tgtctgaaca	360
atgacataca acataaataa tattgatatg cat	393

<210>	12624
<211>	450
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      12624
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aattttat	ggagcttaag	agcccataaa	gtctcagcta	ggctttctaa	aacctagatg	180
gaatgataca	ttgatactag	ctgtcaaatt	gtctaata	aacctgttgc	tcanaaagtg	240
aagcaactaa	tctggtagca	aatatgtttt	tttaaagttc	ttcacattgc	tgcagcattg	300

tcaactgaga cagacatgat ttgcatatta aacttcanac aggcaacact aaccagaagc 360  
atgcatagcc tcatacatat gtataaagta taatctaate ttgtcaaate tttcagcagc 420  
atatctaaaa attcaacaag atatatgaac 450

<210> 12625  
<211> 353  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12625

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atgtgattct cacacttatg tgettaagta ttataggcaa tgggtgacat gttactgttc 180  
tttagtagta cattgtaatt cattgagtga gccatagttc cccgtttgag attgaatata 240  
acgattaata cagacagtnt ggatcaattg gtgtattcaa tcttgaattg tccgtttgga 300  
cagtttgga agacaaattg tttttacttc attntgactt ataagttaag tat 353

<210> 12626  
<211> 470  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12626

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ttccaagtgt aactgttaaa ataattaatt gtggtgaaca taatgagggt gagaattcct 120  
cagcccttta tggagaatac taagttctac ccttaatatg aaatatgatt atatgaataa 180  
ttaggagtgt aagcagggtgc gggtcacctg cgaacctgaa ttgatccaaa ccaacccaaa 240  
tagtttggtg tgggtaattn ttttggttggt gtcanacca aactggacca atcaaacctg 300  
ttgagttntg gggtgggtca cgggttttaa tacttgaaaa tgctgactcg ctgacttggt 360  
ccattgacct attaatgtgt attanattat tattattatt attaatatat gtaatatata 420  
atatatantt ttaaatttta agaaatcaaa tactatngac tattgattac 470

<210> 12627  
 <211> 347  
 <212> DNA  
 <213> Glycine max

<400> 12627

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 cagggatttg aggaacggca ccattcttgc tttccagtat tcatagttgg ttccatccaa 180  
 aattggaggt ctgttcaactg gtcctccttc tttctccatc gtcacagaa tgcactctcc 240  
 tagatctcac tctgtgattt cgagtgttgg ctctgatacc aattgaaatt ctgataccag 300  
 gggacagatg tcgtaccgga tgtcacgaca tcacgcttca gaacatg 347

<210> 12628  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12628

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 agatatcgag acgctcaaaa tttagatccg aagctctgag aaaattgaat tgacaataac 120  
 tttatacacg gatgtccggt tgagtcctgt aatatatcga gacgctgcaa aatgaaaacg 180  
 gaagctcgta ggaaattcaa acgacaataa ctttttactt ggatgtccga ctgaatcggg 240  
 taatatatcg agacgctcaa aattgagact agaagctctg agcaaattga aatgacaata 300  
 actntataca cggatgtccg gatgagtccc gtaatatatc gagacgctca aaatntagat 360  
 ccgacgctct gagagaattg aatcgcaata actntataca c 401

<210> 12629  
 <211> 482  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12629

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 aattaaattg tctcagagct ttggatcaaa attntgagcg tctcgatata ttacgggatt 120



$\frac{d^2}{dt^2}$

agcttggaat	atattatntg	aattctagtc	ccccttatag	actctgtgaa	gatgtttgct	60
agttgggtcat	tagaactatc	aaattntgta	atgagttctt	tggaaaaaac	cttttctctga	120
atgaaatgac	aagtaaattt	aatatgcata	gttcatccat	gaaacatcat	attgggtggct	180
atatgaagag	ctttgcttga	ttgtcacaac	ataatttcac	ctattgggatg	tctctaaact	240
tcaattcttg	aaggagatat	ttaatccaaa	cgtgtgcaca	agtagctgta	cacatatcct	300
tatactctac	ttctgcacgg	tgcagtaaca	ttttgctttt	tactcttnca	agagacaata	360
ttccctccaa	taggtacaca	ataccccana	atacagcatt	tgtcaatagg	cgagcttgcc	420
caacctatat	cacaatatcc					440

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aagtgtgctc	aagtaaaagc	caaataagta	agagcaatat	gtgatggctg	taaagaatgc	180
ttgcatccct	ttcaaggact	gtttataaaa	gaactcaagg	aggccaatgg	ctgtgaacat	240
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5337

<211> 397  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12634  
  
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 gttgcatccc tgcaccaacc ctctgatttg ccaggcagc caaaatggct tntagaataa 180  
 tttatcttaa gacaaaaaac cttctcaaaa caccttagga tacactttaa gactctaaca 240  
 ttatcctgag tggcacaaat aactaaagca cagtgaattt gggtaattct ctgttgccct 300  
 tgtggcttgt tgggcatggg ctatangttt agtatttacc tacctacaag accttgatag 360  
 aaaaactttt tagaacattg aaaacttagt cagatga 397

<210> 12635  
 <211> 243  
 <212> DNA  
 <213> Glycine max  
  
 <400> 12635  
  
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 tgggggttct taatcttgat cgactactct atgtgacacc aatactgaac ttgtgaaatc 120  
 actgaatctt ttggactgac tcacttattc ttttgctaatt tcatcataag tctcttccaa 180  
 aagtgaaga tttagtaagg ggtaacaatt atatactcac gtaattatta tgcaatataa 240  
 tat 243

<210> 12636  
 <211> 466  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12636  
  
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 natgatcaga caccgtgcta tccaacacaa gagatgtata tgacaaacgt accgcatata 180

ctccagcgct	gaacacttgc	ccacgacaag	tgacacacac	tgataatgag	tggggtgcac	240
cttcatatta	tccattatca	ttaactcttg	gttgaccag	tctaacatga	tgactactg	300
gacacgatac	acagctcaaa	ctcaatacat	acctcactca	tctgcggtac	gaagagacac	360
ctccctttca	caccaccatc	taggcogttc	taaacaatca	accgcaccgc	acgatccgat	420
cactccagac	acctctacga	caacggagct	cttaccacat	cgctcg		466

tattctgtgt	aattgcttaa	ttttcagaag	ttaattaata	attaataata	ttntctcatt	60
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gtaggcccaa	atttcagctg	ttatggacct	agcctgttca	tcagacttat	aacttgcata	180
tctttatgca	atcatttttg	cttgatgcac	cccagattct	gtaaagtctc	catcttatcg	240
aatcttcttg	ccacagccaa	taatccttgt	ccttgcacct	ctgcctacca	nagtttgtga	300
ataatgacaa	catatcacta	atgtttatta	atatctaatt	gttgctaaca	taaatattgg	360
ctaaatataa	tagaatctct	tctcttaatc	atactctttt	atctataaga	tcanatatga	420
catcttact						429

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actagatggc	tttttctata	aatagccatg	taggagaaga	gaaaaaatat	ataccagcaa	240
catgaaagta	tagaaaaaca	tagaagaaga	agaagaagaa	gaagaagaag	aggataaata	300

gagtcgaggc gctgcagaga tgtgactgtg gatcactctc ttcgttattt ctcttgggag 360  
tcttgtgtta tgcacaatgg tcgattattt nttctaaagg ataggatgta atctttgtac 420  
ccttacgtat ctcttttgat attatatatg gacttaatct ttctactcat 470

<210> 12639  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12639

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agcagaatat ttcttggttt caccattgac ttgtgcatat cagcaataat aattntttta 180  
tccttagtca attgaccagc gtataaatgt ccaactaatg acttggccaa ttcattgattg 240  
tgactctcac acattcactt caccatccat ccttcgcctc caaccactgg tttcccat 300  
agcttatagg gacaccata ttttctacta tcagtaactg ttcttacaaa atctttcttc 360  
ctgggtctat actgactact cctttcacaa ccaattaaga catatggcac tccttctctc 420  
ataccaggta ttgtggttga cctcataatc act 453

<210> 12640  
<211> 460  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12640

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ctccaactga gctcacgtac tcccacgtag cccatattct cgtttctctc aataccgggt 180  
ccccatcaat cctcccatc ttcacacaa tccaagcaaa acaacattca nacagcacia 240  
gctatcacag ccaagcaaaa cagagcaaag gcagaaaact ctgccaaaac accaaccana 300  
tcacnagctt tctacttaa agaccncagt aacaattcct tcgttcggtt cattaaccgt 360  
tggtatcaact cgaaaattta ctggaagtct tagtacataa gccacattn tgaaccgtgg 420



gatctactag caaacatcca gaactcactc tacattactc

460

<210> 12641  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12641

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accatacttc ccacgatttc cttgggttat tatcaggcta gttatgccgc cattgtcttt 180  
gcctagaccc atcccgggtt cataaccgtt ccccaacata actcgggcca tcattaccgc 240  
cgcatcggac agacaagggt gcccaaagag ggagtccacg gaggaatgc tgaccacctc 300  
anaagactgg anagcggttt ctaacgattc ttccgcggtt tcacgtaagg catggaggat 360  
gggtagctta ccaagatatc ttctcgcct gacacgatga ccaagtgcct ctccactacg 420  
aatctc 426

<210> 12642  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12642

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cactgtctgt gagaaataca gcattagcaa ggagaaatgg gcccaattnt gtcagaaccg 180  
caaagacccc tcgtaggagg tatgtacttt gtcattntag ttgttttcta cacaaaaata 240  
acttcttata attcattnta gtaatcattn tctttattgt tcgattnttg taggatgtgc 300  
ggaanaaggc acaggccatc cagaagcaaa aactgcccc ccacgtgttg tctcgtgggg 360  
gttatgaata tttagaacia aagctaattg ctgagaagat a 401

<210> 12643  
<211> 453  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12643

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agttgcagtt ttaagcctat gacatgattt ttctaagtga gtctnttggt tgaacagttt 180  
gagttgaatc tattattaag ggatttgggc tacgtatacn agtatttata tcaaatattt 240  
tagttgaaat gcaagggana aaggccaatt ttcagcattt gtagttcata gaagaaattt 300  
gtgttttaac tctacagatg gttcattgat atccaaatca tgtattgagt tctcatggct 360  
tattcaagtg ttaaaataat tntatggctt ctttctttaa tggatgttct agagtatctg 420  
gtcaagttta attgttcatt tctgatcact gat 453

<210> 12644

<211> 314

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12644

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tctaatagct aagctcaact ccttgagatg agaagctaga gcttagctac acacccccta 180  
taatagctaa gtcaccctc atgaagaaat acatgaaaaa acataaatgt ccctactact 240  
aagactactc aaaatgcctc gaaatacaag gcctaaacga aggataaacc tattctaata 300  
tttaciaaaga taag 314

<210> 12645

<211> 393

<212> DNA

<213> Glycine max

<400> 12645

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tagcttgcaa tggacgatat tcggttatata gtaatgaact ctccattcag taacacaaaat 180  
 ttgtgtaatt agttcgctca aatctattat cttgtgtgtg caactataaa tcttataatt 240  
 ctatttgaca tccttacatt tggcattatg taacaaaaga tgcaagaaaa agttactaaa 300  
 cgttatatag agatggcatt ggatggtata tatagcttgt ctgcacacgc caaatcttat 360  
 ttgattactc tgtccgagat acaggtgtat ata 393

<210> 12646  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12646

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 ttgaaaaaca acactaacat gttaattatg cctttgaggt aattgtctaa cctattatgc 180  
 aacgaacaaa accaaatgac aacatcttcc ttaagcaaaa tggcgaccat atttctatgt 240  
 gcactgcatt ggagaccaac atagggtatt atactattat acattaatta aattcatttt 300  
 gtcagcttaa cttaccca 318

<210> 12647  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12647

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 tatactgtta aanaaagtac aactcact cgtggtgtga ataacagagg ctctcctac 120  
 aaacactttg ttagtggacc ccactatctg gaaacttaaa gaaagggtga agattgcacg 180  
 acacttcact ttcttataat ctgttaaagc tgtctgctnt tccacatcat ccacacacaa 240  
 cacaaccaac atcaacatgc tttagatttt gaattccaaa tttgaatgta tagtgtaggc 300  
 gccacatac aaacggccac atacataaaa caaagtaaaa tata 344

<210> 12648

<211> 463  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12648

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 ctntagcaga agaagacatg ctcgacgaag ggagagggca taacagggct taccatgtgc 180  
 cagccacacg catggaccac gtcgtggcca atgtatctct cgctcacggc accaagtaaa 240  
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 cgaccatggt ggacacggca ctccacggaa cgccgctaga ggtgatgaga cagaatgcct 360  
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 aactgccat cggacccgcg gcaactcccc tgcgactac ccc 463

<210> 12649  
 <211> 249  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12649

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 atgtcctctt accctcactt gcttaaggct ctggtcttcc gggctatata agttagcata 180  
 aaactccttc accatagcta catctatgct tccatcttgg agattggcga gacgtttgtg 240  
 taagttatt 249

<210> 12650  
 <211> 455  
 <212> DNA  
 <213> Glycine max  
  
 <400> 12650

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tctaagacat tcgattttgc tagccaaaca caagcgcata tatgattcat cagtgtgcat 180  
ctcatttaac aagtatttga atatgtcacc actatattcg atatctgcta ccataattaa 240  
ctatgaaatg ccacatataa cataatccaa tcactataaa caaatgcctg tctataatac 300  
cccgtattta ctatcccata agatcaacat acgaaacact ctaatatatc tgcggctccc 360  
acattattgg cgcactgtga ccttcattca cacaacacgt acgttcttac ttcttctcct 420  
acaaacacca ccactatcac gctaacacga ctccg 455

<210> 12651  
<211> 212  
<212> DNA  
<213> Glycine max

<400> 12651  
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ttgaatgaca tataagctct gcaagtgagt gaaaagtttc tcctctcaca tattcaaagt 180  
cttaagtctt tttacatgca ctatccatta ta 212

<210> 12652  
<211> 193  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12652  
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acagatttca tcattaaatc caatggaaat gttctagaga tagcgtaac cataaaataa 120  
gatttatatt caaaaatcac tacaaaataa ccattaaatg gggaactata caagcttttg 180  
aaaatgattt atg 193

<210> 12653  
<211> 371  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12653

tctatagaag gttcgttccct aattttctcta caatggcatc acctctcatt gagctagtga 60  
agaagaatgt ggcattttacc tgcggtgaaa aacaagagca agcatctgct ttgctcanag 120  
aaaagcttac taaggcacct gttctagctc ttccctgactt ttctaaaact tttgagctag 180  
aatgtgatgc ctctggagtg ggagttggag ctgttttgtt gcaaggtggg caccctattg 240  
cttatttttag tgaacaactt catggtgccca cccttaacta cccacctat gataaagagc 300  
tctatgcctt aataagagca ctccgaactc gcgaacatta ccttgtttcc aaggaattag 360  
ccattcatag t 371

<210> 12654  
<211> 572  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12654

ccaacgcgct cctncntac cgcaagccn gactaccaac gcatgtgttg aaattnnnta 60  
ccttaggaac gtgctgtcta cctactataa cgccattcca ctggtcccga gacctctcag 120  
tcgactgcag catgcagctt gtttactttt tttttttcat aggcatacac ttggggagcc 180  
tttcttttctt cttaaacact gcttactacc gatgtaagga acttcttcga aagatgatcc 240  
accctgatac acgtcatcag aaaatgtacc ttccagaatc agcatcgacg aatcccttgc 300  
ttcattgagg aaatagatct cttaatcgct taggagtatt cttctctctt accttaatgc 360  
aaaagcgcac cataactcaa caacggaaga attaattcta gacttgaaag agaaatgact 420  
acacaccacg cttgcatcgc aaacgatgaa ctaaacgaca ttatcacctt accttccact 480  
gtaataagcc acccacctta ccagctgtga accgtaatat atgtgtgcaa ctgaaccaac 540  
aatgactact gggtagaac acacgcatat cc 572

<210> 12655  
<211> 653  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12655

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gntcanctat cgaattctac acnananaan ngaaacnnnn nnaagagagc ancttgattt 120  
 cgatggcatt cgcatatang cgacactata caatactcat actcgacaca acaaggtcta 180  
 acatactcat tctcacacta agctgtgttt attggtttag aattcgtctt gtgcacggtt 240  
 atatgcagac actctattat gtaggcagca taatgcttgg ccttaactca cactctctct 300  
 tattgctata tctgtagaac tacactctgg gatccctgat cattaaatnc ttatctatga 360  
 gcctatggcc catcatcgta cagatgctac atccttcttg gccctctatt attcgtatat 420  
 aacatagttg cgggtgtatc aatcttcttag gtttattaga acgttatatc gctagctctc 480  
 ttcgataata gaaagataat atgattctct ggagctgcct ctctgatgcg taagatccat 540  
 actcaatgtc gcacactata aaggatgttc tggacgttat aacccatcgt ctcgaagata 600  
 ttaattaaca ctcaattgcg atctctccac ctggttgctc atgctatcat ccg 653

<210> 12656  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<400> 12656  
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 cccatcttta atggagtggg taccactact ggaaaacccg catgcaaadc tttatagagg 120  
 caatagattt aaatatttgg gaagccatag aacaaggacc ttatgttccc tctataatgg 180  
 ccggaagtgc aacaatatga aaacctatag cagattggac tgaggaagaa agaagattag 240  
 tacaatataa tttacaggcc aataatatta ttacatctgc cctatgaata gatgaatact 300  
 ttagggtttc taattgtaaa agtgctaaag atatgtggga tacactacaa gtaacacatg 360  
 aatgcacaac agatgttaac agatctatga taaacactct aactcgcgaa tatgaactct 420  
 ttacgatgaa ataaatg 437

<210> 12657  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12657

acttctttac tctctcgcg aattgtagcc tctttcccat tcactcttta tagctntgag 60

agccaagtta tcccttgctg tctatactac aaccatttgt gatagctgcc aatgacgcca 120  
 ttgctacttc ccctaagctc cttatctttt ctttacactc tatttcacgc tctctggatt 180  
 ctctaaagta tcttcacatt agctctattg aaacctcgca caatgaaagg cgcaatgatt 240  
 tcttccgacg gtgcacctct cattgagtaa cctaactgtc ttatggccag cacatgtata 300  
 taattaatac aagccctcat gcctatcaaa gggatattgg ggaatcctta catgagcata 360  
 acactactgt cttctcttct ttcac 385

<210> 12658  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<400> 12658

agctatgtaa gtatattatt tctaatacat ttgaaaggaa ttatataaag atttaaccaa 60  
 tataattaat attctaattg taatacaata ttttatttta gataaacaaa aataatgtat 120  
 gatattaaca ttcgaaagca tacacaatat tcagacacaaa atacaatcaa cttattaaag 180  
 gagaatttca tggatgattc aatctaataa actatgtgaa ctaaaaatta ttaatgtgtt 240  
 ctgtatgtaa taattaatct atatataata taattaaatt atatgatatg ggttgagttg 300  
 agtctagt 308

<210> 12659  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 12659

atcaccccca ttctcaatta tagagctgca attgaagtct tagttctaga gtcacacgct 60  
 ggaaagtgag aaattgaatc cattccacaa ggcataatcc agttgtctgc tgttatttct 120  
 ccggaggaaa aagagaacat tgtaatctta taacatactt atagcgcttg gtacttacgg 180  
 atgttaatta agactgaatg atcatttcat gatacatata atacctacca cgatattaat 240  
 aatgatacag ctcttcaatt tcatagataa cataaactca ttgaaacaaa atatacgata 300  
 cataactgac tatacaacaa tatgactacc cttctgccga tattggcaca cttcttact 360  
 ttgtctt 367



<210> 12660  
 <211> 158  
 <212> DNA  
 <213> Glycine max

<400> 12660

acaggaagat gacatgcctt gccaaagaca acccgatatg gtgacatccc tatgggtgcc 60  
 ttatgggcag tcctatgcgc gcatagagca tcctctagcc tggcgctcca atcctttctg 120  
 ttaggctaca ctatcttctg caggaccctt ttatctcc 158

<210> 12661  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<400> 12661

tgaccaatcc cgacccaacc cgtgcatagt cagtcagtga gaacctgtga tgtacctaaa 60  
 caggecgagct cctggcagtc aacagataaa aggaacaaag accacaaagc aaggaggctt 120  
 gtgtgggtggc tggccagctg tgaactttgt gtgatatatt gattatggcc tctggtaatc 180  
 gattaccaag ggtgggtaat cgattacaag gcttaaaaat gaagacagga ggctaagatg 240  
 gtctctggta atcgattacc aagagggtga atcgattacc aggcttgaaa acgagatca 299

<210> 12662  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12662

ngctctataa attctttctc acttgatata ctccatggat gaacagcagg gacttttgcc 60  
 gaataaagag tgggtgaatt tgcaggagga ttatgcttgt agatcattgt atcaagaacg 120  
 gggtcaaaat tctgaggaga atctatggag acacagaaca taggaattgc aaccttctga 180  
 tggatttcta cgtcgccac aaggttaaca agctcaacaa aatcactgat aaggcgctga 240  
 ggaacataga acacctcaga actgcatatt atgagggttt tatcggtgtc gcttgtttct 300  
 ttgtaactga ctcgaaagtg cgctggcatc gtgctaacaa ccttctgtac cattcttgct 360

tggtgtgaaa cccatctgag tcttcacccat ttgtaatata gaagaccgag actcngatac 420  
ctgaatccca gtaa 434

<210> 12663  
<211> 310  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12663

cgtcagagcn atgatanaat tagtggcaat gtgacagata agagccattt atagtgtgaa 60  
ttgagtgttg agaggtcnga ttntgaatag gtggagattc taccttaata ttagcttgag 120  
caagtctaata tcaatgttat atacttgatg aagatgagag tttacccac aattacccaa 180  
ttttcattgt cactgtttaa accttgaaaa ttcactatat ttggcgggtt atggatacct 240  
ataattcgct ctaccttggt ttggagtttg attatggctt gaacatgatt tatacacggt 300  
ttaggacctg 310

<210> 12664  
<211> 448  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12664

agcttctttt ggactctgaa caagcaatga actcctcttt cagaaccatg ctatgtgctc 60  
gcgactggtc ctttcttcc cttcgcaact tgagttcact attgctaccc catagagctc 120  
cgcgaaattt gttccggcca tactcttct tgcgagccct cttggtctct tgttcaaggg 180  
ctcttgcggt aattgcattc tcttcccgta acccggcaca ctcttccga acgtgtgtag 240  
cagccaactt gaacttctcc ttggcgagtt ttgcctttcc taactcgctc ttgagagctn 300  
ggacttcttc gtcctcttcc ggtgcttcat aattctcttc gctgacgact ttttaacttg 360  
cgagccaatc taaacctcgt atgcgaactt tcagccattc gtggtacca ccaatgatgc 420  
cattacgaat gcctctaagc tcttgatc 448

<210> 12665  
<211> 450  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12665

ctgagacgca tgtgaaactc tggcatcatc aatacattca tctttattct ttgtccacaa 60  
tctccncta tttgatgatg acaatccctg aaatcaagac aagctatata caagatgata 120  
gcacgttcac acaaccctta ctctccctat cttttggcat gtatgcataa ctgtacttaa 180  
tgataaattt ctaatagata attgatttct aacccaagtt ctctctctca gttctctctc 240  
cctctggcaa catcaciaag aactaacgca catatatcta tatccaaaca gagccaacaa 300  
taaaccacaa taaactcata cattgtcata accaaccaaa tcacagccaa gaattataac 360  
ataagtgcac gactacgata actaacgcct aagaagccaa atacacggcg ataaaccaaa 420  
gtactactaa tacttaatta ctaataatac 450

<210> 12666

<211> 511

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12666

ccctccgctt cgacgtcaac ctattcaaca aatcacacgt ggaacgaact catnagggnt 60  
cncnaagcgg ggctggtgtg actccatgac aaacnaaang acgcagaccc atgatcaacg 120  
aagctaacag cataataaat accatttata tactcgaacc gtccacgagg agcggatgag 180  
ctaggaacga caacgcgctc ggtaagcagg aacattacct cacgcatgtg cccaccaata 240  
ggctggaaga cacggagaag agaagaaaca gggacaacgc ggacagccat gcgcgaaagc 300  
accactagga agcaacaaa aaaatgcgcg aagcacgcgt ggaaaaacca cgcgatgagt 360  
ggcgaggacc atagcaaaac ggagtattaa cagggagacg accaaacaag actaacggaa 420  
aaccagcgcg aaacgggagc gaacgacgcg aacagccggg aaacgaaccg agcaacaccc 480  
aggcaataca cggaacaat cgggcgggac c 511

<210> 12667

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 12667

agcttctttt tagacctga tcggtcatct ntctggccg acgccgactg ttantttttc 60  
gatcaatata ggtgaataat attgttttgc cgaggtgggc taatgttctc ctggctgaat 120  
aaatgagaac atgccatttt cgcccgaaac gaaacatcgg ttgagctcgc acgataaaac 180  
ctagccgacc tacattgtaa gttgtttatg caacaccgaa acaagaaaac ttcccctgcc 240  
gtaagaaaaa taattatggg ccagccagcg tttttttaa ataaataatt gcgcagtgtc 300  
ggctgaaaaa tatcagtcgg ggccatttca cgaccgatgt cggctattga gtcttctatt 360  
caatccctga atgataatgc atgatgtcga ttangaaatg gttgatcggc gtcacccggt 420  
gatgcttctt ttttagacct cgatcgggtca 450

<210> 12668  
<211> 474  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12668

agcttgcttg cggatcttta tggaggatgg atctttgagc ttcaatgtgg tccttcaatg 60  
gtgatttttc accatggaga tgcagcggaa ggcaaaggag aataggagag gggaggcacc 120  
atccactatg gaataagcca aggaagaagg agcttcacca ccaagaattg ccttgataa 180  
gaagcttgaa gaggatgctn taatggagga aaagatagag agaagggggg agcacgaaat 240  
tgaaggaata aaagaggag agaagtggaa ctttgaagtg tgtctcataa gactctcatt 300  
catcanagtt acaacaagtg ttacacatgc ttctatttat agactangta gctttcttga 360  
gaagctttct tgagagaact tccttgagaa gcttctntga gaanacttcc ttgagaagct 420  
agagcttagc tacacacacn cctctcataa ctaagctcac ctccttgaga agca 474

<210> 12669  
<211> 408  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12669

cagatttagt aatgaccac taacctagaa taaaataact tattgccatt aacctangga 60

attaanacaa actaaatggc tgagtgtaac tganattggt ggcaacaaaa agtcaccctc 120  
 aacagccaac aagtcagcca ccatttggtc tcccaaaagg ctgatgccta ggttgccaat 180  
 tggggccctta ttacaacttg aactaaagcc cttttagttg attaaccxaa aacatattat 240  
 tggtcagcca actttacaag gattggggcca ttatttagac aaactaaaca ctctagacat 300  
 gaaataaagt ggtgtcattt agtcctccat ttgcgccatg atacaactca caaccttgga 360  
 cttttctcct tgaaacttgt gcttggtatc aaatagtatg gacagcac 408

<210> 12670  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12670

agcttgcttc tacaggttcc ctgttcccaa ttatggtatc aaaagctggt aacaaacaat 60  
 aaactaccct cacctatcta tatctctctc ttagctcctt gcagagttgt tctaagatat 120  
 cttaggttca cgtccgttca ttcaaagca gaactctata tagaagcaaa aactttgatg 180  
 ttntggtgat gccaaaggat catgcgcttc ttaagtttaa ttcgaaggat catgcgcttc 240  
 tcaagtttaa ttcaagagga tcatgcgctt ctcaaggtta attcaagaca agaatccaag 300  
 aaattccaga tatatgatca agataatctc t 331

<210> 12671  
 <211> 626  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12671

ctctctacac tctcctgtcc anctttcaga ntaccacata tcgttctcac tacattgtct 60  
 cannnncanc aacaaannnt acagtggaat tganttcatt gccctgagac acgcacacta 120  
 ctactctga cctacacacg tngataatgg aatcctgagt gcctggatga catcgattca 180  
 tcgtctgttg ggtcttatat gaaatggtgg cacagatgat gatgcgctac gaatgattga 240  
 ataataacta ttttgacag aatgtaatgc atgaatatac tgccagtcag acagaacaca 300  
 ctctgttgat aattgtagc cggacacccc aatcttctga acacacggtg tttgcaccct 360

tcttggacga gcacacatag cagataagcc atcgccctct ttactgcaa tgagcaaaga 420  
ccaccctgca tatgataacc caccctagac ccaaacacaa tatatcaatc cttgatcgga 480  
accctcaaac atcacaatth naaccttcga cctgtatgca cagagttacc aagtgcatac 540  
tttacccttc agatgtacac aatthttcttc ggacgaacaa ccaagttcgc atgcattatg 600  
ctcaacctth gacaagcatg aatccc 626

<210> 12672  
<211> 473  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12672

agctntgagc tntgagcact tacgagtgtt tcagcaccct agtaccaaga gtgtatgtaa 60  
agthttcttcg agccacactt ccaagagcag tgtanggggt tctgtatgtt cgagcgaggg 120  
gtttccggca gtattgaaaa caatgtggga caatgtgggt gtcgagggag cggthttctgg 180  
cagatttcac gcgggaggag aaagagaaca gcgactgcaa tgtthttcgag cgcacgggtt 240  
gtgaaatgcc aatgttntaa cttataaaca taacaacatc nggtthttta ggataaccga 300  
tgttaactaa atataagtta acatcggtth ggaaatcata taggttatat cggthnctta 360  
aanatcgata ttaagatcaa ttccttaaca tcggtthtca acatncgatt tgagagaacc 420  
gatgtthtact ctatcaagtt aacatcggtt ctgcaaaac cgatgtatca tat 473

<210> 12673  
<211> 337  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12673

gaaagcacac cccaaggtat agatgcanta atthtttcaag agtgtgagac agactcatga 60  
ctatggatct ggctthttcc tcagcagcag acacaacttc taatthtagac tttgctctca 120  
aaatcttggga atctccatth tgaactattg agtctagtht cctthccttc tccttcaacc 180  
tatctgtctc aacagtgaca tgcttcaact aatthtatgat gacatccaaa gaggccataa 240  
actagaaacc thctthtctta accaaagcta atthtttctt agctggcctc aatthttctg 300

ttatagttng gaacactata gagtcttctg attcctc

337

<210> 12674  
<211> 374  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12674

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acgcatttcg tccttgaggg ttgtgtaccc tatgcgttgg atcattccca atccatagct 120  
tatcccttcc gattcgtgcc ttgagtcgaa ccttgccctca tgatatctat gtctaatacta 180  
attatctcta gagggctaaa cgcaccataa aatcgtgata tacacaatta atcacacctc 240  
gacaatcttg agatatggga gaatatntng aaatgtcata atgcattgac tcatgaatat 300  
aagagaggat acgcatagtc aatgatgata aatagacatc tctctgacct aagaagacat 360  
gctgagcaat acaa 374

<210> 12675  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12675

tactaagctt gaacagatga tttgagacag catgtacaan aacaacagga gataagtgta 60  
ttttacatga aagatcacca tgttcttcca taccagaggc gcaaggagga gcaagaagtg 120  
tgagccatgt angtgtgtgt tggtttagat gatggaaata gagaagatgg aaataaaaga 180  
gaattntttt aattaaaata gagtgtaaac agtatgggtc ccacaaaaaa ggtacaaagt 240  
ttcacctcaa tattatttat ctccacctac ccgtagtgat ggtagtgtaa cagagcagga 300  
ggtaggagtaa caattgactg gatataataa ttgcacaaat taacttatgg caaagtttgt 360  
canagaattc atttcttatg gtaagtagat ataaacaaac attataatca gatntcatat 420  
aatttcaatg tttcaagagt attngttagt tgggtgaagt tgaaaaaatg aactg 475

<210> 12676  
<211> 456

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12676  
  
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 ggcttcaact cttgcactcc ttcccatgtg tatttcatct ttattgcta gctgctgtaa 120  
 tatactgggtt tgaatttgaa taaggaanaa gagaaatata aggatatata gaacatgcat 180  
 atcattgccca aaagccaaca cagcaatgca tatatatagg aaattaataa tactcgatca 240  
 gattatttct aggttaaaaa agcttgcatt tcgttttagt ntactatata taaactaagg 300  
 acaaaactta tagtgacgca tctcaagaga attaatttgt cttattcttc aataaaaagt 360  
 agagtnttat ggcgatttac atattttctc gttgagttat atggngatct aaatatattc 420  
 tcgtcgagta atgtaataag ttatatcatt attatt 456

<210> 12677  
 <211> 658  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12677  
  
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 cctacgctct anacgnanan tnancaanac agcgtgggtt tgatttgata gcacttcata 120  
 agcgcactat aaaaactcca gcttgactac cgagttgatc caactgtcag ctaagcatcc 180  
 acctttttct agtccacaca aggccaaata atgtcgatat catccagctg ttagccacaa 240  
 cactaaagat cgcattaccc ttaacgataa aatagaaaag tcgatccaac aagggtactt 300  
 gcagacgttt gtcacagacc tatcacgtga taggaagtga gatagaagcc aagaatgtat 360  
 gaagagtcgc gaaacaatag aaacactttt gtcacgataa gaatcccca cccgaaactc 420  
 gacttccagc gataataaat gcactaaaca aatgctgtgc gaggggagga cagtgcact 480  
 cgacacacac aggctatatc tgtagcttta tgtccggcga cacatcgctt acacgaaacg 540  
 aatgtcacia cgagcatatc gcctatctcc tgtaccgacg acgtatctga cgcgaaatcaa 600  
 cgaggcctca atgatctaac gtgaaccacg actaaggctc taactctaatt catgcacg 658



<210> 12678  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12678

tnttttatch gtaatgcacg cacaagacgc acaagtgagg ggggatgagt atattcctac 60  
 aacaatgtaa tctatccatg acccacaggc acaaagaggt ggttgagcat tctntcgtga 120  
 caatataata gacgataagt gaagtgtgca caactattta cattaacaag aatctatggg 180  
 gataatagta tacgccttac atcgaacgaa aacgtgaacc tcctgattgt ggacaagccc 240  
 aacaaagcgg atcttactcc gcctctagga gatctctgag ttatagctta gccagttatg 300  
 gagactcatt accatcatag tagaatcgta gtaactaatt tgcactacat actatagttt 360  
 tactttctcaa atcgaggttaa cccattgaat ctaaattggg caataaattt ctccatattt 420  
 tcc 423

<210> 12679  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 12679

accggtatat gtggactagg tggcgatcgg gtgatggtgc aagtcgactc tccacatcca 60  
 cagatcacac ataaatccac catccgcagt tgcccacctt caactgagct catgtactcc 120  
 cacgtagctc ttatcatcgt tcctctcaac accgggtccc catcaatgcc tccaagcttg 180  
 cacaacatcc aggcaattca acatccaaac atcatgaact atccgaaacc aagataacag 240  
 ggcagaggca gagtactctg gccaaaacac ataccaatac cacagctttc cttactcaga 300  
 taccctagta acattctctg tgatccaatt cgttcaccgc tggagtggac tcacaatatt 360  
 actgggggtc cctagtacat aagtctacat tt 392

<210> 12680  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12680

aggtagtctt acctcacana atatatatat atatatatat atatatatat atatatatat 60  
 atatatatat atatatatat atatatatat atatatatat atgttttaggt agaaagatac 120  
 cttggatatg catgtgtgta gcacaaaaaa tttcacaaaa tatatatatg tatgtgtagg 180  
 tagcaagata ccttggatat gcatgtatat agcacagata ttcacaaaaa catatatatg 240  
 tatgttttagg tagcaagata cctgtgacac acatgtatat agcacaatac ctacanaaaa 300  
 tatacgtatg tgtaggtaga aaaataacctc atgagaaaag agagagcgag cgagacacga 360  
 ttatgatcaa aataataata gagagacaaa ttatactacg atatcaaaaa tattagcggt 420  
 tgtctagcta gaacacaaca tgcttgtgaa gagagatgac tttcagctg 469

<210> 12681  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12681

actctcatct caaacaagtc tataacatta atttaaactt gctcaaactg ggtntnchnag 60  
 gaaaactcca ccgattcaaa atttgacccc tcaacaccca attgnncnta gaaatggctc 120  
 ttgttttcac ctctgtcact catntttttc tcatttgctc tgcccaagct ntcctacnng 180  
 ngctaattga cattgtaaac taggatcaac tcactttaga ctgcgngnac ggtaaaccga 240  
 aatctagttt ctctaaccct cacaatctca cactgttcta cctacaacat tgtcatcctc 300  
 acatttaacc cctaagttaa ctttccccgt catgcatacc agttgtctat caacaatttc 360  
 agcacacaca catcac 376

<210> 12682  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12682

agcttgccac ccagctctct caggcgagct aggttgcttc ctccagaagg caccgccttt 60  
 tgggaaactt cctggaaggt ccaagtgggc ctggttgcta tttgcaccct cctgtttact 120  
 aaatacacc ctttccttnt ttttgctgat tcttttttcg taacgttatg gaaccttacg 180

aattacgtaa cgatactttg tttctttccg taatgtcacg aaaccttacg gattatgcaa 240  
 tcatcccttc tttggcttcc ggaatgttat ggaactttac ggattgcgca ttaacacttc 300  
 cttttgactt ccgagatgtc atggaacttc acagattgtg caagaatgct tcctattgac 360  
 ttcangcatg tcacggaact tcacgaattg cctaacgatg ggtgccaagt acc 413

<210> 12683  
 <211> 181  
 <212> DNA  
 <213> Glycine max

<400> 12683

tcatacaatt aatatagaac ctatatacta atatcacatc ctatcagagt cgtgtgttcc 60  
 cgtgtcttct aacatgaggt tcttcatagt catccaccta ttcattctgct cccccgaaca 120  
 caagttcaag atcatcacag gatccataca caacaacaca catggagtga gttatcacat 180  
 t 181

<210> 12684  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12684

ctcccctagt ttgctatana tagggggaag aagtgaagaa taatagggtt tcatccccag 60  
 aagtaccttt ctctctttct tcaaatagct cgggaaaatt acattcatgg agaaaaattc 120  
 agccgaggcg ctctcgtaac ggttcccgag agaatacacc aataatcttg accccgtttc 180  
 aagagataat ggtccgcttt cgtttctttc ggctctaaag ggggaaagcc ttaaccaaaa 240  
 cgtttaaaatt aatttatgtg cacgcggggg gcacacattg ggtccgtggn ttatactcgg 300  
 gttacatcaa tttatacccc cctttgcgcg cgttgacccc tttttatanc gtattcgcg 360  
 tatatataaa aaaaataact cccacgggc gtgggagttg atcaaccata atggggagaa 420  
 aagattcccg cgttgtgagc g 441

<210> 12685  
 <211> 423  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12685

agctgtgtaa tgaagtatac aggctatggt tatttagtgg cattgtttat aactcgtcca 60  
agagttcttc ctctttaatt acctgttata tattcttttg attctatatt ttcaagcatg 120  
gaattaaatt gtatatacag gatcaatttg acactatgcg taaaacttta acacttgcac 180  
cacttaataa tttacacgaa attaactaat tccaccattg attaagttaa aacaattcca 240  
tacaaaacaa aaactaattg atacttaatc aatatgctnt attttgatag ataatatatt 300  
atgtctttta tgtgaaataa gtaaaatatt tagttagatg aaatttcagg aatatgttta 360  
atztatgtga tatttgatat acatgataga gaaagtaaatt attatattaa ttcgcttaac 420  
ctt 423

<210> 12686

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12686

agcttgtctc agcgtttatg caagacagag accaacaatgt tagccatcat cagcaattac 60  
caagaagaat taaatctagc catgaccac aagcacaag tggcggacga ctatgcccga 120  
gtgtacacgg aaaaggaggc taggggaagg gtgatcgact cgttacatca agaggcatca 180  
atgtggataa acctatttgc tcttactttg aatgagagcc aagaacttcc ccgattgctg 240  
gccaaaggcca aagcaatggc ggacacctac tccgccncg aggagatcca cagacttctc 300  
agctattgtc agcatatgat agacttaatg acccatataa ttaggaaccg ctaggaagtt 360  
tgtattgtca ctcagatctt gactagttat aactntctga at 402

<210> 12687

<211> 510

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12687

ngcggactat accttcgacc aaacacggtc gtgtttctgt ctcggcccgg atttaaggcg 60

ggctgcagca cgggtccgc tccctaacc gtactggagg cggttgccgt ggccttatcc 120  
 tctatagttt tctggagttt taacatgacc tccgagatgg aagccatttg atctttttaa 180  
 gccaatagat cggccttcat ctgttcctgc acacctctt catcatccat tnttctggat 240  
 cgagtgttat aggggtgcct tgggtgtttt ttagttatga tgaaattcct aaagagataa 300  
 acaatgggga gtatgccacc aaaacatgaa tatgcaaag aatgattgga acacttggat 360  
 ccaccctaag ggttnttttag ataacatgat gagttcagaa cttctcattt tatagaaaga 420  
 acanagctnt catctagcca agattataca aaggtgttat aagagaacct aacggnttct 480  
 aattatgtgg gccatcaaat ctatcatgtg 510

<210> 12688  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12688

agcttgccat ccctctctcc caggcgagct atgttgcttt ctccagaagg caccgccttc 60  
 tggagaactt cctggaaggc ccaagtgggc ctggttgcta tttgcacccc cttttttact 120  
 aaatacacct gttgcctttn ttgctgattc tttttcccta acgttacgaa actttatgaa 180  
 tttcgtaacg atacttgntt tctttctgta atgttacgaa accttacgga tcacgtaatc 240  
 atccctcttt ttggctttcg ggatgttatg gaactataca gattgggctc tatacacttc 300  
 ttttgacttc tggcatgtct ctggaacttc acgggtcgtg cacaatgcta ttttaaactt 360  
 cctgatgtca cggaactcat ga 382

<210> 12689  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12689

ggttacaact agtattcttt gtcataccaa gtcactaata gctctaatac aaataaaaag 60  
 attcatttgt ttgtttacac attgaccaac tntcaatcgt cttataaaca gatatacaat 120  
 cccaacacgt agtcttttct ctcaagatat tcaaagtgtt ttcaagctat tcaaaacttt 180

ataagcattt atagacaact tatttacaaa aagaaattga atttgagcgt ttcaattggt 240  
 tcttcatgtc ttcaaagctt ttggtattta tagaccttct tcaacaaatg tttgttgtct 300  
 ctaaataaca agatttcttt tctttatctt gcggtgaag aatatggcca ttggagcatt 360  
 taatgtttgc attanataca catacttctt catactagaa ctgcactctt cttggatata 420  
 at 422

<210> 12690  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12690

agcttaattc tgagaattct ttgaaaaata agcattctag agtcttttat atgcaactag 60  
 ttggttaacc gtgcatacgc acgggtcact tgtaatttat tntgtatgaa tatttattta 120  
 ttctataata cagtattaaa atgaaaaata gtacgaaaat aaaaaaatat gtaacattaa 180  
 taataattag attgtttgca taaacaaaaa aaaagcaaga ttactcattg accaaggtaa 240  
 tgtaataaaa caaaacaaac aacataaact taatttagtc actatcactg gtcgtccaat 300  
 ccttttgact tctaataata atttcccaa tttgttcatg acgcttgtag tagaatgaga 360  
 tttcatcacc ataagaaaaa ttactttctt taaggaatnt atatcaagg tgcacaacat 420  
 anntttttcc aattttaata tcaagaacga taacat 456

<210> 12691  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12691

gcttaatgca agaaaacata ctcatgacta ggaaccctaaa gtttggttnt aggattagaa 60  
 aagcatgaga atagggactt gtttgtaaga atttgggctg ccccatgatt ggcactntgc 120  
 gcctaagtaa cgtgggagat gcttttcaat ggtgtgtaga tatgtgtgtg tcatacccta 180  
 atttcgtccg gggaccttng cttgatgaca tgcgaccttt ctttggtcct tgtgaggtgc 240  
 ttggcatcca tcattgggca atttgtgaaa ttccaggaca tgccgaataa ccaaaaaaaaa 300

tatattgatg cacaatccgt aagtttccgt gacacaccgg atatcaaag gaagcatcat 360  
 tgcataatta agtgagggtc cgtaacattc tgtaagtcac aaggcggatg attatgtaat 420  
 ccgcaagggt tcgtaacatt 440

<210> 12692  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<400> 12692

agcttgggag gattgttttag ttttccggtg ttgagagaaa tgacgatatg ggctacttgg 60  
 gagtacgtga gctcagttgg aggcggggcaa catgggatgg tgggtttatg cgcgatttgt 120  
 ggatgtggaa aacttgggtg gcaccatcgc ccgaccgcca cctattacca catgtgatgg 180  
 gtaccccata atcctacaag ctagatatga ggaagtgtac aatggtgaaa acttcttctt 240  
 ttattcgttg accacagagt ggtacctgga gatatgt 277

<210> 12693  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<400> 12693

aatggcttct caacctgtgt gtggagaatg tcatcgtcga gtctaactgc atttaggtat 60  
 ccaacagcat acattaaggg gccaatgac tctttgaatt tggctgcacc atatggatat 120  
 gctgctggaa cctcttgctc tttagatctg acatcaaagt caacttcatt cgtcgtgggtg 180  
 caaactcggg ggctcacgga ttagtatgat cttttggaca ctctgctgat cctcgttctt 240  
 cttatctgtt catgctcgat tctttatcaa tatcccgatg ctaaataaat gagtatatat 300  
 atatataaa atcacacttt taattcgaca agaagaatat tcta 344

<210> 12694  
 <211> 103  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12694

agctntaatc ttttgatcct actatgtgac taatcattga tcttggactt agtcaaactt 60  
aaagttcatc tctcgtttgt aatagtgtat tatgttgga tga 103

<210> 12695  
<211> 432  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12695

gatattcaag atggatgac aagatagtct gtatagtctt agaaaggga tattaaatag 60  
gaagggaatt ccaattgaag tagcaaaagg tttggccaag aaaattaagt taaaaagtct 120  
tttacaagaa atttactctc tggtaatcga ttaccagagg atgtaatcga ttaccagtgg 180  
ccaaaactga tttacaacag ctattaaaat ttgaattcaa aatttgcct gtgtaatcga 240  
ttacacatat atggtaatcg attaccagca gtttctgaac cgtttaattc aaattntaca 300  
gcttgtaatc gattacacat atactgtaat cgattaccag atcagattnt cagaaaatat 360  
tctcaatagt cacatctttg tatgtggttc ttgaatggct atcanaggcc tatatatatg 420  
tgacttgaga ca 432

<210> 12696  
<211> 465  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12696

agcttaacaa acttagaaat catgtggtca taaattccga aatatagggg gagtaaacgc 60  
acattntatc tatatacaat tgtttgttgc ttgcttgaat cttgatttca ggtattgtat 120  
tgtcatcatc aaaaaggggg agattgtaga tgcaaagcc tttggtgttt tgatgatgat 180  
catgatgata tgatgcaatt gatgcaaatg ggcttttcaa gattaaattc aagacaatgc 240  
ttcaagatta caagtcacaa catcaagatg atcactagta aattaggaag ggaattccta 300  
attgaattag caaaagggtt ggccaagtaa ttntaattaa naagtgtttt tcataggttt 360  
tactctctgg taatcgatta ccagaggatg taatcgatta ccagtgtgca aatattattt 420  
ataacagcta ctganatttg aattcgaaaa ttagactgt gtaat 465



<210> 12697  
 <211> 305  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12697

aatctcttcc acacncaagt ttggaccaat tagtaaaagg gtgacaaaag agttaactac 60  
 aattccaatt cttcattacc agtcaaacaa actattgttt tcttcgatag accaaaatca 120  
 ttntatatgt tggatacaac tgttggtcac aaaagctgat tctctccaca agatgaacaa 180  
 caataaggaa aacatactat ctcaccaacc cactaggaga gaaccaatca ttgtcaatca 240  
 agttgctagg gatgcatcat gctctattta ccttcacta tagacatata tacatgcatg 300  
 ctaat 305

<210> 12698  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12698

agcttaagct gttatgtgtt tacttatgaa tgatataaat aattgaatat aatgtctaac 60  
 atgcgatatg agccttttgg gctttgagca aaggctgagc caccttacct tgtgctaaaa 120  
 tttatcttgt tttattgtga ataatggaga tataatgtgt caaattctct gtctgaaca 180  
 cttggtcaag agtctctaata accatgtcag caaccttcgc tattgaaaag tcaagttgtt 240  
 agttaaact catgaatggc tcgagctgaa ttaattatat atgatattta ttatattctt 300  
 anaaattata attaaaccta attgtataat tatagtttaa tataactaaa tta 353

<210> 12699  
 <211> 505  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12699

taatactatt gtggcatgaa ctctgatatt tgattctgtg tctcttgact gtcatttana 60  
 tctgaggcat tagactctc tctcatacca ttattcatca nnaccatttg attcttgtac 120

aatgttatct gtttggcaag tgtaccaaat gtccaagtaa taaagtctcg gaagccccgag 180  
 tgtcgaattc cattggaatt ntgtgttgta cttatcttgg atacttttca atttataagt 240  
 ggaaaataat aaaagagagg ggtagaagag agaataggaa caataatagg aaattataag 300  
 taatggaaag caaatgaatt anaagcagag taatcaaaaa gggaattcaa tggaatgtaa 360  
 gtgttangac ctaacatgcc ctatntgcct aggatgtatg attntatgaa ttttctttac 420  
 caattcaagt gaatttatcc taccacatc tattcattta cttgtccctg atgcctcacg 480  
 atgaacangc ctatttatnt atcta 505

<210> 12700  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12700

agcttgcttc tacaatctcc ccattntgat gatgtcaact tctgaaatca agaaacacac 60  
 acacacacac acacacacac acactttttc ctagtcgatc acacacttct acaatctccc 120  
 cattntgatg atgtcaagaa acgcattcat acaacattca tggaaaaata taaaccaa 180  
 catgaagcaa gaaccatgaa tataaaaacc acatagtcaa ataacataat taatatttgt 240  
 tcaaacatat catgcaaata aagaaatagt aaattgttca aatgtcataa taatatagat 300  
 tatntggata agtcactaac atctatcagt cctaattctc ttctaattgt gtaaaaggta 360  
 tctttactta gtggttnttt aaaatgtctg caagttgaat tttagtatct acaaattcta 420  
 aaacaacatc acctntaga acatgatgtc taat 454

<210> 12701  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12701

ngagctcact ggtgctgcn ctacanagcc nctcggaact tgtttcggtc tcatgcttcc 60  
 tttcangccc tctntgtttc ctgttccaat gcttcggctg tggccacatt gacgtctctc 120  
 aactcattgc attcttnttg gaccttgatg gccattgtct tgaacctttc cttgactgct 180

tgtgcctatt caagtttggc attcaaggct tgcacctctt cactctcctt aagggtttca 240  
gcctcttcct cacttgaaac ctttagcttt gggagccaat ctaactcttg catccgagcc 300  
ttcagccact tgtgatagcc accgacgac tcattgctgc ttcccctaag ctcattatcc 360  
tttctttgca ccatgctcca tgcctttcga accctttgaa atatccttgc attgngatca 420  
ct 422

<210> 12702  
<211> 457  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12702

agctnttaac tgtatttgca gcgttccaat tgttntttaa atggtgtaat cgattacaat 60  
atattggtaa tcgattacta gagtatctaa atgttgaaat tcaaattcaa ttgtgaagag 120  
tcacatcttt tcataaaatg ctttgtgtaa tcgattacat ggttttggtg atcgattacc 180  
agtgacaagt tttgaataaa aatcaaaaaga tgtaactctt ccaatgggtt tctcaagatt 240  
ttctcaaggt tataactctt ccaatgtttt cttgaccaga catgaagagt ctataaaagc 300  
aagaccttga cttgcattnt aagtacttga tataactttt catatatact tttaaacct 360  
ttgaatctct ntgaaccatc atttgaactt cttcttcttc ttcttccttt gtcanaagct 420  
ntctgagttt tctgatttcc aaaccttggt atttcac 457

<210> 12703  
<211> 440  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12703

acattgaaac agttaaatct attaggattc ctgaaactcg ntatgaccaa acacgngag 60  
gtaaaggtag ataaggatag aatgttgtca caatgactca acaggagggtc tcacaagcac 120  
atattatata ttaaacaaca caacatgata ttttccgtac atagaaaccc acagacaagt 180  
tcttagagtt acacacccaa aatgaacat gatgagggtg ttgcaagagc acaataaaac 240  
tttcattaaa tnggttagag aaacaatatt agcttatgac aatgcttcga aaactttaag 300

attgttagtt gttgcgccaa atctcaatgt ctctacttgg aagggatatg atatcaacaa 360  
 ttattccttc tacacanaat cacaagatga taaaattgtc gtgcggaaca gcgtgggtcag 420  
 tggatcatgct taattttatc 440

<210> 12704  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<400> 12704

gcttgtgctt gacttgccctg tgtgggagtt ttacatatat gagaaagggg caacgcgtta 60  
 tgggttgaaaa taagaatttg ggtcttaaaa aaaatataaa tttattaaat ctggagtaca 120  
 gttaaacaag ttaaagtttt aaaaaatagg tgaggtggac caatcgggaa gaatgtatta 180  
 gcggaatcta atgatattta ctctattat attctttctt ttggcttgac tctgctaatt 240  
 attaagtttc ttttaaagat gtcaccggat tgtttgatgg gagagaagag aaaggtgtaa 300  
 aactcacaaa aatttgaaaa tttcttcac tttcttcct atttgatctc aaccaaagac 360  
 tctgatctaa accagatcaa ggccacctga tccacacatc ctctagataa gggaaaaaacg 420  
 aaagagaaga gaaaatgaga aatgcatgtg atg 454

<210> 12705  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<400> 12705

tagtaacgtg aataagaaaa taataagtgg atgccaacat attaattgtt catttgaaat 60  
 cttcatcaca attcactgac agacctcaac taataggaat atataaatat gaataatctc 120  
 tttattatta attaataggc catagacaag cgcctaactg gccttgccctt aacaagcctg 180  
 gtgtctttta cagtaaatat ataactccta ttttatacaa caacaagggtt ttaaactacc 240  
 caaacttttc agaataataa tacatgtata taaagaaaac taccagact ttgcaagata 300  
 taaacacatg tatataaaga aactaccca cgagcaaac taataatata atcacaactt 360  
 atgtattgga tgggtcacac acgaaccata acataacgta cacaagcaca catgcaccag 420  
 gctattctta caaataatac tacacctctt cgttcggcgg cctgcattct ataattggca 480

tctcatgat

489

<210> 12706  
<211> 440  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12706

acgctttaag tggaagaata ttctccgtat tctacgtga tattggcttc atcgtgagat 60  
gtttcaataa actcatagtt ttgtctgcta ctcttctcaa tcaaataaaa tagttaagtt 120  
tggtcgctta aaaaaaactc atacttttgt cttattatta attttcgtat tagaagttga 180  
tataaaagta tggtggaaaa taaaataaaa tatttaaatt tgcaatgata gatagttttt 240  
aacgatcaaa ttataattat atttaattaa ttatttggtc ttataattc tataatttat 300  
acattctagt ttctatagtt cgaaattaat ctttctaagt ttataattt atatcttaat 360  
tctctggta gttttatagt ctaaaattga tttatctagt tcttgggaatt catattctaa 420  
ttctntttta gctcttatga 440

<210> 12707  
<211> 372  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12707

attgcgaaag cccactcca tcattaggat tagtacctga catctcaaac aaacaaatca 60  
aacgtaacaa gacaattata gttgttgttt gaataacctca cccactcaag tgtatcacac 120  
aattatggct nttctctaatt gaaacactct tgccttttac cactctaatt ccccttgagt 180  
tcttaggcaa ttcaagagat tatggccaca acaagaaca attcaccaat atgtgtaagg 240  
taaggctaga gagacaagga aaagggttaac caagaaaaag gctaacaatg tttttaggca 300  
caaatgaagg aaataaaatt cagaatttag gaattcaagt aacaatcctt catgcaacca 360  
atatattacc tt 372

<210> 12708  
<211> 463

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12708

agcttgctta tgtctttacc tattcctaag catgtatggc aacacatcac catggacttc 60  
 attgaaggtc ttcctttctc ttttggtaaa caagtcattt atatagtagt agataggctt 120  
 agtaaggcaa ctcatctcat ggccttatca catccttata ctggtgcgga tgtggcccaa 180  
 tgcttccttg ataatgtctt taaattgcat gggtttctg acaccattac cagtgatagg 240  
 gatcctgttt ttgttagtca cttttggaag gaatntatgt cttttcaagg gattcaggta 300  
 tagctttcta tagcttatca cccacaaact gatgggtcaat cagaagtggg gaatagggtgc 360  
 cttgaaacat atctcagggt catgtgtagt gactcttcaa cacagtgggc ccaaattgggtg 420  
 cctcttgagg aatgggtggac aattccactt accacacatt att 463

<210> 12709  
 <211> 507  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12709

gtagctntag ttngttccat gttgttgctt cccttatctc taacatattg ttccaacaga 60  
 tcttggtcga gttaaagggt atcctgggtgc ctcatctcta acacaatcaa atcctaagat 120  
 tgngtccaat aatggaaatg aaatgacaaa ggataaatat aagccatatt tgaaacacat 180  
 tgtgaatggg tctagttcta ccaatggtat agttgttggt aacgtangcc cacctaagggt 240  
 taggaaaacg gttgtaacta actctaaagg aaaccttcca tagcctcaac aaggcataca 300  
 cccctaatac ggagtttaatt ctaaaaatat tatttagata aggtcaaata aagtctttgg 360  
 taagactaat tacatggaga ttgaanagggt gtttgtccca acctctaata nggaacttct 420  
 tgcccatatg atcgctcta aggagaaatg attcggtccc aagatatgag ggttcgactt 480  
 atctacacc cagtttctc atggata 507

<210> 12710  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 12710

agcttcgatc ttgctataga gcaatcagca gaaaaccaga caagcttcat ccattctctaa 60  
gccccaaagaa aaggaaaaaag gggactggga accatgctca aagcaatata aggggcanag 120  
gtagagagag aataaaaaatc taacgtgccc cgggtgccaga atgcttcttg ctatgtgaag 180  
gtatggggga gggtcattat acgcagcctt agccttgcat atgcaaagag actgtttccg 240  
gattctaacc catgaccaac cagtcactaa ggtgcaactt taccattatg ccagggctct 300  
tcctcaaagg tagagggaga ataatacaga gaaaatcact caagtttact ccacctctaa 360  
gccccaaagaa cagaggagga anaaataaac catgctcana gaagtgcang tggcaacgga 420  
agattataaa aggaaacata ttttagacag taagtagata 460

<210> 12711  
<211> 390  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12711

ntccctctnt gaacanatac ccctcagcca aatagcattc atcttgtgcc tttntccac 60  
aactctcgta aatgggagaa aaatgttcat ctaaagcata caagtccta atattatcaa 120  
ttcctaaaat ttaagctcct agggagcaaa acaatgtgtg tctcctagag agggcatcag 180  
ctaccacatt tgtttttccc tttntgtatt tgataacata tggaaatttc tctaggtact 240  
ctaccatttn tgcatgcctc ttgtttaact tgctttgccc tctaattgtac ttaagtgatt 300  
gatgatcact atgaatgaca aattccttgg aaacaaggta atattcccaa gtttggaggg 360  
ctcttattaa ggcataaagc tctttatcat 390

<210> 12712  
<211> 617  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12712

tcaccacaca acntncactt cgctnantat actctcatcg ncgntngntg antgtgcgac 60

gcataggaca tataacgtcc ccacgctgag caactggttg tgtcgacgct acgaacggcg 120  
 aacngngctc ggacgcggcg atcggtatag atgactgcag gctgccagcc tggaattact 180  
 cttatttata tcctctccat gctcaacaat acccctcca tagtgagcaa caccatcacc 240  
 atcataccgt caattagcac tattctcggg gaaggtagtc ctataaatcg ttgagcaggc 300  
 aagaatgggg acaggggctg atcgcagaag aaccgggtaa tcaactggagg aactaccacc 360  
 gctgctacag gtagaaantg ggatcattct gctaaaccag gcctaataa ggataatata 420  
 acttcgccga aggtgacaat acgntcccta tgcttgggcg atacgggaca tcccgacaca 480  
 gctgatgggt agacataggg gcgctaccaa tcaaaagaat tgaggctaca acacgcacgc 540  
 cgatgagacg acgagcagca tgtctgtgac tccttacatt catcattgct acggcttaat 600  
 tccgcacgga acaggcc 617

<210> 12713  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12713

tttcgcacaa gcacgatcaa tatcgagggtg atgggaggtt tcaaaagtgg agcagcatat 60  
 gctacaccaa gagatgacag tgcatcccct cttaatacga tgttcattcat taggcattca 120  
 ggtatgaata atcctccacg tgagaaagga ctaagaacgg ggaagggcag cactccgaat 180  
 cttggaaccc cgtgaagcat tatatcgaat gagagcacat tatattcatt tacaacgagt 240  
 ggtaggatca acctgatcca aactcagatt ccagatttca aaactaagcc aagattntca 300  
 agctntagaa ggctattctc agctcaaggc ttcaccatac atatataggc tgggctatat 360  
 tcaactcaat angcctttca aatatgctcg atacttgatt gaagcatcat ttgaagatgc 420  
 aactaataat ttatatacaa gtagaattta tataaacatg tta 463

<210> 12714  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12714



agctntgcag cccaatcctt tctttaagta ggtacggtgt tttctagtat cctcttgatc 60  
 tccctagtct aaactccaac ttttccattt gtttacggat gataaggtga tgctactttg 120  
 tgtcaaacat catagtgttg aaagacctt gagaattgag caatacaaaa gtgtgtacct 180  
 tcatcactaa tcaagagtct aggcaatcaa aacctaacia aaatgtttct ctttaagata 240  
 ttaatcatca tctttacatc attggttgga ctagaaattt cttccacca ctttaagaca 300  
 tagtccacta ctaccaagat atatctgttg ccacgtgagg atggtaaggg gaccaaaaaa 360  
 tcaattccct aacaatcaaa caattctacc tctgcatgt tctgtaatgg catttcatgt 420  
 cgtctagata tggtgccgat tegttagacca atattgcatg atc 463

<210> 12715  
 <211> 472  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12715

gcgacactat gatactcagc tctccccatt tcttataata ggaggagaag tgaagaggaa 60  
 tttcgttcaa cctcttgggt aattcagaat cacttanaac tagagaaaaa aattggtttc 120  
 gtgaagaaca tccaagccga gggtctcttg taacgtttcc gtgggtgatt tcacgaagac 180  
 tctcaaccgt tcttcgacgt tcttcattcg ttcttcgtca ttcttcggtc ttgaactggt 240  
 aagttcccta natcgaactn ttcaattcat tntatgtacc cttagtggtc ctcatattgt 300  
 ttcacgtgct tttatttacg tttcatttac ttttcgtacc cctttttgac gtgctttagt 360  
 catttgctta agttattttc tcgcctaate aagaaataaa atanatgtca acctatcatt 420  
 tgaattgtaa taccggttag tttctgtaaa ataaaatcca accgttcggt cg 472

<210> 12716  
 <211> 419  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12716

agctntagct ntagttatac attatggtaa ttaggggtat gcaaaaatta attcagtaaa 60  
 aaaacagaac tagattcatt tcaaattggt ttaacggta gattttatat ccaagtaac 120

aaattgattc aaaatcgaat tagtttttaa aaacaaaact ggttttagaga taaactagat 180  
 tatgtattgg aggtgattcc agtattttgtg gcaaagcagg gagaaacatg tccttccaat 240  
 acattattag tgattatggt gctcataata tgttgcgcta gctaaatttg agggatatat 300  
 aacaaccttt gcttcaacca ttntgaacaa gccacggaaa cgatgtccaa gtccttggag 360  
 agtttanagt tgaacgttga gtgagtcctgc aaccattgct agctnttaat aatgcacag 419

<210> 12717  
 <211> 491  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12717

tcctctgagg caactccggt ataaactgga taaacctnt cttcaacaca cctaattgaa 60  
 ccgtgcacaa tgccatatca cctcaaaca cctgactccc tgcagtcacc tgcactccat 120  
 cgccactata cctaatacata tgcacagtct tctcatataa aatcggcaca ttctctgaca 180  
 aagcctgaac cagcttccca tttccccccag gcaaaaagca atggtctccc cccatatcat 240  
 atggatcatc ctggtcccaa aacgcaagcg aaagatttga caacaacccc gcattcgcac 300  
 actccaaatt tgcgagatgc caattaaaca aattcatttc ctcactcctc actgcgtcct 360  
 tataaacctg actgaatgtc tncagcgcag ccncgagcga cacantccac cgaaacctcc 420  
 ncatcagctg cctcagccta ctcgccttat caagcaaccg attaaacgca gactccacct 480  
 tcacatccat a 491

<210> 12718  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12718

agcttgatcat accgctccac ccagtgaac ttcagttgac tggccccata aaatgacaac 60  
 gctactagcg aagtcacac agttattgtg ctgtaaatgc aatgtgtgaa gcttggttag 120  
 taatgaatat ctaaacaatt tttatttgca aacttaattg gcatctaaac cagagtagca 180  
 tcaaccaga ttaagaaact cagggccttt aagattgtga atcttttagt gcagaacagc 240

attcaaaatt caaataacaag acagaaataa ggattcctat atgttccatc aaccaacctg 300  
aatttcaaaa nagtagtcaa gggatctagc tgaattgtta accatctttg tttagcttgg 360  
atggcatctc anaattcaag tagtttgtgg taccaaagag aggtttgtca gacagacatg 420  
atgtcttatt agaagtctta gcataagttg tcatgaaaaa ggtatacatg atg 473

<210> 12719  
<211> 487  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12719

atcacaagta acatgattaa tgcattgtga cgtctcctac gtacataaaa cgctgtanac 60  
tatagcgtct tggctcttga tgtgatgtga tattgcgtgc tcattgcttc ttaactttct 120  
tttcgagtta taaatagaag ttagtaaatt gaattgggtg tatccatata aaatcctctc 180  
tatttttgtt cttctgttta aaaggatgaa tatctataat aacaatcttt gctgggttcta 240  
ctcccatact ntatcttcct ttnttctctt ccttattctt ccttctcttt ctacaaccaa 300  
cctgactgca ctgttttgct attntcnaa aactcactaa cactcctttc anactagaaa 360  
cttgganaaa tggcaccgat tgggtgaagt ggcattgngt cgcgtgcaac accatctcag 420  
gtcatgtgat tggctctgat gtngacattt ctccacaatc ttttggtgat atttctctta 480  
taatctc 487

<210> 12720  
<211> 426  
<212> DNA  
<213> Glycine max  
<400> 12720

agcttctaca ttcaatttcg agcttttcga tatattacgg gactcaatcg gacatccgag 60  
taaaaagtta ttgtagtttg aatttgctca gggcttcggt attccatttc gagcgtctcg 120  
atatattacg ggactcaatc ggacatcaga gtaaaaagtt attgttgttt gaatttgctc 180  
agagcttcgg tattccattt cgagcatctc gatataattac gggactcaat cagacatccg 240  
agtaaaaagt tattgtagtt tcaatttgct cagggttcg gtattccatt tcgagcgtct 300  
cgatgtatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaatttgc 360

tcagagcttc tacattcaat ttcgagcttt tcgatatatt acgggactca atcagacatt 420  
cgagta 426

<210> 12721  
<211> 480  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12721

ntgagcanat tcaaacgaca ataactntnt actcggatgt ctgattgagt cccgtaatat 60  
atcgagacgc tcgaaatgga ataccgaagc tctgagcaaa ttcaaacgac aataactntn 120  
tactcggatg tctgattgag tcccgtataa tatcgagacg ctcgaaattg aataccgaag 180  
ctctgagcaa attcaaacga caataaactt ttactcggat gtctgattga gtcccgtaat 240  
atatcgagac gctcgaaatt gaataccgaa gcgctgagca aattcaaacg acaataactt 300  
tttactcgga tgtctgattg agtcccgtaa tatatcgaaa cgctcgaaat tgaatgttga 360  
agctctgagc aaattcaaac gacaataact ntntactcgg atgtctgatt gagtcccgtg 420  
atatatcgag atgctcgaaa tggaataccg aagctctgag caaattcaaa cgacaataac 480

<210> 12722  
<211> 460  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12722

agcttggaat cactctcatc attntcctct ccaccccat cactaccccc tccatagtta 60  
gcaacaccat caccatcaaa cttcaatta gcactattct tggggagttt agtcctataa 120  
atctttgacc agtcaagaat gttgacaggt gctgattggt gaagaaccgt atattcattg 180  
gaggaactag cactgctgct attgctagat cttgggatca ttctgcctaa actaggccta 240  
gtgaagtata ttacaacttc cacaaagttg taatatactt ccctcatgct tgggctatcg 300  
aggactatcc ttatacttct gatgggctag agatatggga tgctatcaag tctaaaggat 360  
attgaaccta caaactagtt agtcaggatg atgacanaga tgcangcatt ntctctgcac 420  
ttctttagta ttcacaaatt gcctacaact ctaatataca 460

<210> 12723  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12723

tacacaggca gttntaaaga cataaagggga atgatatnnt gagtttgaaa tgcttgagtg 60  
 cattcgaaac tctcatcaga naagaaatcc atatctatga acttaggggc aatgataaaa 120  
 tgagaggaga agaggtttgt ctaccgtata cgtttttctt ccgatgagaa caatgaggag 180  
 gagaaaatgg aggaaggaat tggagtatcc tgaacctcgg agtgccgttg gcttctactt 240  
 gaagaacctt tgtgcttctt caatgggttc gctatttgag agacttattc aaaatttcaa 300  
 tcggttgaaa tgaaagagga tgaanaaaga tngaatttgg gctctgtggg atgtgatatg 360  
 gataagaaat gagtaagtta tggctganat acgaattgng aatgaggggt cgcgagagga 420  
 atgagaggggt tcagaattca gaatttgaat ctgaattata agaganggat gcgttgaatc 480  
 gatacaaca 489

<210> 12724  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12724

agcttgcagc aatttggtat tgctcatgtg tgatgtagaa aggtttagtt agtgacatgt 60  
 cttgcatggg ctaaaatagg taggacaact tattaggcat atgaagtata gattctcata 120  
 ttctaagcgc caaattttgg taaccaatta ttcttgacat acgcgtactc caaatacttc 180  
 tatttttgaa taaattattt ttattatta acacatcggtt aaatcatgag tatgataaat 240  
 agtacttaat ctaaagntac ttgggattca tgaaagatat gtaccttatt ttgattgaac 300  
 tcatttgctc ctggtatagt tagtttcttg gtaacagcca ttagctntcc atatntatca 360  
 acacatggat cttntttgaa gtagtaatac atagcatcta caacatcagt taatttgata 420  
 ggatatctca atgaagatcc aatatggtac a 451

<210> 12725  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12725

ctctntttctc tctntntctc tcaaccattc ttcattcttc ttcctctntt cactnttgnt 60  
 cttectttnt cttgcacana ttntgtggct cgtccactag tgatgatcat ggaagggttaa 120  
 atactcaatc agtccaagga ttcattccaa gccagggtga atttgagtta tggnttagta 180  
 tttcaattgt gtgaatgctc atctttntct ttaatcctaa tttcaattnt catgattata 240  
 aataagttta ggattgaaaa tgaattangt tatgaattta tttcctaatt ntgaaattta 300  
 atcacagggt atctggatga tattctaacc taatttgcca tctcaatgaa ttttgggatt 360  
 aattcaattg aaataactct aatgacattg attgaactcc cacaatgatc attctntgca 420  
 aaactgtgat aattcatttg cattga 446

<210> 12726  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12726

agcttaagaa atatatattt atagtataat cccttcatag agtgcagaag catcaagtat 60  
 gcaagacatc atattatctg agatttatga aacaaataat aattcacgat ggtagaaaa 120  
 aattcaaaag acaaaaaagg gcaaaagttg cagcaaagtg tgtcattntc ccatccccgt 180  
 gaagtcaatt gcatgaggat tacttccccg gggagcaaca aagtttgtct aatacatcat 240  
 gtattaccat cagtttacag cacaatcatt tttcccataa tagcattccc ttaattatct 300  
 atgtagcatg tgattgtgag tatatcaa atgcatacaa gtcgagtata caggacatgg 360  
 aacactccat taaccaacat aggaaccaa atacctgcag agagacatta tgttcctta 420  
 tgccagtata ataatg 436

<210> 12727  
 <211> 327  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 12727

ggaccggcga aagcaagtcg taaatggagt ggttgagta ccaagaaaat gtctggaagc 60  
ataggtgata accttgcaa gtcacgaaga atgggccccg atcatggatg tccttgcgct 120  
cttgatcttc agagtgggcc tttttccaaa tgtggatggg ttggtggact gcgcaatgat 180  
tgatgctttt ctgcctttt acaccacaag gaaagcccg ttgtcgctat cttatccaat 240  
ctatatgaca cattcgaccg aagatgcgag aagaactgng catggatcgt ttgctataca 300  
ccggccctct acgtatggct ggttcac 327

<210> 12728  
<211> 456  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12728

agcttttcga ttcattctat gcacccatgg tggccacat tgcgtttcgt gcatttttac 60  
tctcgttttg gttacttttc atacccctc ttgtcgtgct taagccgtn tacttaagtc 120  
atttctcgct taacttaaaa ataaaataaa tttccaccga acgtttgaat tatattatcc 180  
gttaacttcg gttaaaatca attccgaccg ttcggtcgtg ccgtaaccac gttggaaatc 240  
ataaagaggt aaaaaataa tataataatc ataaaatc ttttttagta aaataaagcg 300  
gaaaatcaat cggacgtttt ctctntggga tttctcattc ttaattgaat tgattaataa 360  
ctaaagtga actaagggt aaatcaactc gcctagtcaa gctcgtccac aataataggg 420  
ctttgaagtt cgcatttcaa tttctcacta agtaaa 456

<210> 12729  
<211> 379  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12729

ntgagccana atcctgactc accatanacc ttgaccagg gtgagaatgt ctatccttac 60  
cctcggaagc ggaaagaata gaagggaat ttccaatcaa agaaaaggaa agaaggaaga 120

tttccaatca aagagaaagc aaaaaaagaa aagaaggaan attccccaat caaagagtgg	180
gagaaagcaa aaagaaaaga aagaaaattc ccaatcaaag aatggggagaa agtaaaaaag	240
gaagaagaag aaggaaagaa agctcctgat cagggatcga agganaacag aagatatgtg	300
cagaaaggtc ttggaaccgg acaatatctg aacaatacag aattgtcacc aaatgaacaa	360
aaagaaggag aggaaacca	379

<210>	12730
<211>	469
<212>	DNA
<213>	Glycine max

gcactgcnnt	ttgatgtgtc	ntacatcgac	taacggcgaa	tgcagctcgg	acccgggatg	60
ctaacagacg	acctgcngca	tgcacgcagg	ttttgctata	tatacagaag	atgacccgcg	120
ctgcttaata	caacacgaga	tagtgccacg	atataaaagc	ccattgtgca	gacttgtgcg	180
ccacacgaca	attatctacc	caggcgctcg	cacactttat	gtgaggttat	attttttctc	240
cggaaccctt	taaatatcca	aagggaacta	caaccaacga	gcggtaaagag	gtgtaagagg	300
gggaattatt	aacaaccata	ctggcggttaa	ggaacataga	ttgcgcaacc	ggggcttgtt	360
aaacgaaggt	tggggttcac	cacgagcgag	ttaatttcta	taaaccacct	agaaattgtg	420
gggaatgcct	cccccttcac	attgccggga	ataatgaaat	tagagggag		469

<210>	12731
<211>	443
<212>	DNA
<213>	Glycine max

tcacaattcc	acaattccta	taataggcct	aactcacaat	taggtccnca	gtggagtcgc	60
caactgtcgc	aacgtgcctt	ttcgcgggcg	agcgagggcg	aggctcacgg	gtgcgctttc	120
caaatgagga	aaggtgcgcg	gagtcgccac	caacgatcat	ttgtggaaaa	cgtcgggaaa	180
accgaatgac	accggtcaaa	atgaaaattc	taagttcggg	agttgtattt	acgttcgagg	240
aaggtattag	cacctctcac	gtttgtctca	aaggataaca	gcctattntt	tagaattgtg	300





<210> 12734  
 <211> 354  
 <212> DNA  
 <213> Glycine max  
  
 <400> 12734  
  
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 cgtaacgata cttgttttct ttctgtaatg ttacagaacc ttacggatca cataatcacc 180  
 cccttttttg gcttctggga tgttacggag cttacggatt gcgcactaac acttcctttt 240  
 gacttctggc atgtcacgga acttcacggg ttgtgcaaca atgctttctt ttgacttccc 300  
 gcatgtcaca gaacttcacg aattacctaa cgatgggtgc caagtacctc gaag 354

<210> 12735  
 <211> 446  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12735  
  
 tctttgggac cttgaacagg caactaactc ctctntcaga accatgctat gtgctcgga 60  
 ctgggtccctc tcttcccttc gcagcttgag ttaactattg ctacccaca gagctccgcg 120  
 aaatttattc cagccatact cttccttgcg agccctcttg gtctcttggt caagggctct 180  
 tgcggtagtt gcattctctt cccgtaacct ggcacactcc ttccgaatgt gtgtagtggc 240  
 caacttgaac ttctccttgg caagtttcgc ctttctaac tcgcttttga gagcttggac 300  
 ttcttcgtcc tgttccggtg cttcaaaact ctcttcgctg acgactntta acttgggtgag 360  
 ccaatctaaa cctcgatat gaactntcaa ccattcatgg taccaccaa tgatgccatt 420  
 acgaatgccc ctaagttctt gatctt 446

<210> 12736  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12736

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cggttatctc	cttcttcact	acatcaagaa	tcaccgggtt	gtgtcttctc	tgtggctatc	60
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caggaatgtc	caccagggtc	cagcctatag	ccttcttatg	attcttgaga	atagacaaca	180
acttctctc	ttgctcatca	gcaagggagg	caaatataat	cactggaaaa	gttctgctat	240
catccacata	agcgtatttt	aaatntgatg	gcagaggctt	caattctgg	gtggcccgc	300
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<210>      12738
<211>      363
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      12738
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 ttg 363

<210> 12739  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12739

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 aaatgttaaa caactaagaa gcaaattaaa gcagacctca cattttcaaa aaaaagattc 120  
 gaaagaattg aaagttttga agaggcaata tgcggcacta ccaaaacaag aaaaatgtag 180  
 catttaccag cagtaattct tattagctnt tgtttatttg atttgggtaa tatagatagc 240  
 taccaagata agcagaattt tattacaaaa gatttatcta ttgaagtctt atttattttt 300  
 ctttacataa ttatgcatca tctttcttgt ttttcgtact ttagaatttc ataccgata 360  
 gcagtatttt tatgagaaaa catattaaca tctgaattgt taaacattaa aaacatgtac 420  
 acatgtatga actntntgcg tgaaagtatt ttgatatttg aattgctaag atatata 477

<210> 12740  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <400> 12740

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 tccattatcc agtaatatca tgcctctttt atttggacat tgagaagcaa tatgaccaac 180  
 tccttgatac ctgaaacatt tgatatcatg ggatctagaa gatgaattaa tttccatttt 240  
 accttttaggt gcagcacatg aatttttgga cttagcttca tcttttgact ttgtcataga 300  
 atttctgttt tgccaatttg acttccatga ataagtggaa tcaaatttgg aagtactctt 360  
 agctatcaat tgcctctcca cttgaataga tttatgcagc aagtcctcta tctccacata 420  
 atga 424

<210> 12741  
 <211> 475  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12741

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 gccccacatt atttccatga cacaatgca aaaatgatga tttggaaatt ttatgcaaaa 120  
 ctgggtcatgc atgcacctat gtggacgctc aagtgtcaaa tttttatggt catgtgatgc 180  
 tagggctcaa gattcatttc ctctatttta aatcaacca atgtttccaa aatatgttct 240  
 tttatcaatt tgtgcattca tccgagtcca tttcgggctt ccggagaaat ttcacagcat 300  
 tcacccttca ggtgtagaca cattttccaa aaattgggta tgatcaatga attcttttca 360  
 aagaaaagtt ggaaatcatc tcttttcaaa agcatgtcgg ttnttcagct agacaactta 420  
 ttattctttc ntctctcttt tttttatcat tatcatgtgg ttatttcttt ctctt 475

<210> 12742  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12742

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 cttttctcct acttgataga tttaatccta tagattgnga ttagttgctt ggtttttaat 180  
 ttcttccaaa acctttaaaa ttctggattg atgtctagga gacaaccatt ttagttattt 240  
 caagggaac ttatattgta catgccaata tcagtcttct tacatccagg gtcttaagta 300  
 gcacattata gtgctgttat agtggcttta cggcccatgg ctgctgccat agcatagcan 360  
 gtaagtgtat tggcccctgc agacagtat 389

<210> 12743  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12743

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ggactaattt atgtagccaa aagatttact ttttaataa tacagagaat aagattacat 120  
caaaactttt ctgcaaaaaa tccacataaa attcagcaaa actgcacatg aattatcttg 180  
gttttttagcc atttcataaa caaaatgtgc tagcaaaggt catctaccaa gctttgggtg 240  
tgtaaagact aaagaaaata gatctatttc attacttaat tcagagttcc caaacaattt 300  
caagcctcag caataatcaa gtaatcaact ataactagta tacatagttt aaaatatgcg 360  
gccatgtgat accataattg tgtcacatac ttatccactt tggatactta gtatctaata 420  
ctctntaaat actnttaatt gcttctttgt ttcttagctc ctaattaagt gt 472

<210> 12744  
<211> 388  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12744

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atgtgagact tctaacagta tattactttt ctagtgtata atttacaata acatgcatgt 120  
aagaagtttt attcatgctc aaataaaaag tagaaaacta aaacttcttg gatgtggtat 180  
catcagccaa gaaataaagt cttttaaagt cttgtttttt atggaaacta ttatgcaact 240  
caaatatgaa gtaatctata gctgttatgg tcttccttgc ataactctgcc tcccacagtt 300  
gttattcaag agccagacaa tgtactcatt ttctgtaaat tcttcacgtg gtgattggat 360  
ttggtctttc tgactgtcga ccttattc 388

<210> 12745  
<211> 361  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12745

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tcaaagctag tttattgagt ttggataggt aagagaagct ctactttgat tgaattcttt 120

gtttaagtgg gtgctacttg aaatgcttgt tttgtgtgtg caatgatttg tatgtatggt 180  
 atatgatgtg taatttaaata tgggttaatt tagaagtcac ttgacgtctt aagaaaattg 240  
 aagttatgca aatgtttaca ctttaagccaa gagtgattnt cgcttaaacg aacatgtcta 300  
 ttaagaaata tggttgttgg attcaagctt aacgtagatg aatataggct taacatgggt 360  
 g 361

<210> 12746  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12746

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 ctcttcaatt ttgttcttcc ttcttcttgc acaaatttca tcgctcttcc aatgggtgatg 120  
 atcatggaag gctaaacact taatcaatcc aaggatccat tccaagcaag gctaaatttg 180  
 agttctgggt tagtatttca attttgtgtg aatgttcatc ttgttcttca atcctatttt 240  
 tgattttaat gattatgaat atgcttanga ttgaaaatga attangctat ggattcattt 300  
 cctaatttca aaatctaata acagatngtt tggatgatat tccaacctaa attgcaatct 360  
 caatgaatnt aaggatcaat ttgattaaac tatttctaata gacattgact aaac 414

<210> 12747  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12747

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 ggagagaata ttctaggggt ttgcattttc agtttctgtg tactgttcac gtagcaatca 120  
 taatttcatt ttttgcttca aattgcaatt tcgttttcta cttctgcctt tgaattcggt 180  
 ttcatttctg ctgattaatg gaaggctgag ttccagtggt tgttttctct tgaggatcaa 240  
 gcacaactct ctttgagggt ttgctattac tattgaattc tgatcagttt ttccccctca 300  
 ccaattgctc tgtatttgtt gctgttaatt catgcatgct taatgcttca ttaattgtct 360

ctgcgcttaa tttacgttca tgcttaatga tcagtttcgt tcatgcttaa tggacatgtg 420  
agacggatta attggtggat gtgttactta ctcacataat ga 462

<210> 12748  
<211> 418  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12748

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ccaaataaat aataaagtca tctcgactca nagaaagtca tataagtctc atacaattaa 120  
tatagaacct atatccta atgcacatcct atcagagcgt ggtgttcccg tgcctctag 180  
catgagggttc ttcatagtca tccacctatt catctgctcc cccgaacaca agttcaagat 240  
catcacagga tccaaacaca acaacacaca gggagtgagt tatcacattc ctagctaata 300  
gagaaacaag acaattaaat atacatatta tataaatgag ataccactng cttaaacata 360  
gctcacgtaa cttcaccact tcgtcattca naattcactg ttcaattatc aatcacat 418

<210> 12749  
<211> 460  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12749

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aatgtttgtc cgaccataa aatatgaatt atgtacaaca aaaatgttaa gaatctttta 120  
tagtggtcac cattgaaaat gctcttaaaa gtgaacatat ttagcatata taattatgtt 180  
accaaaatat aaatttttta caaattaaag gtttactcat aattctttta gacaattgtg 240  
ggaaggggtt tgtcatgctt ttctcccttg caaatccaat acatataaga tctctttcga 300  
tataaagtag aagtgttttt gagagttttt ttaataaaat aatttatatt tataatagag 360  
aaactttcaa aagcatgtat gaattgtatc caaacaatt cctaattgggt tctagagtgc 420  
acaaggttgt aatgtcaagc acggtacaca agttttctta 460

<210> 12750



<211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12750

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 tttgatcatc ctgctttgat gaatgagaaa actggggcaa atgaagagga tgagaatgag 120  
 gaaggaaacc atgttgaggt tgtcattcct acatggccaa acttcgcacc agcccaacaa 180  
 tgtcattact cagccaatat tagttgttct cattaccac cacctagtca cccacaaagg 240  
 tcatccctat atcaaccaca aagcctgctc gccgcacatc cggtgccaa acaccacctt 300  
 tagcccaaac caaaaatgaa ttttgcagca aatagcctgt aggattcacc ccanattccg 360  
 gtgtcatatg ctaacttgct cccatatcta ctcgataatt caatggttgc tataa 415

<210> 12751  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12751

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 gctntttctt tnttcttctc tctagcctgt tcaattctac tcctctcgtc attcttattt 180  
 ttttcattnt ttttcaattt ttttattttc tttttctttt tctacttctt tntctttntc 240  
 tttttcttgg tcattaaatt ctgttttctt gaccattatt tgtttttctt tttcttgatt 300  
 actttcacat atcacataat ctttcttttc atcagtgcct ttcttttcag cagctntctt 360  
 cttgggcaca acactntcct catcctccgc ctccacaaac ctcttactcc ttgtcatcac 420  
 agctntgcat ttctccttgg gaattttttc t 451

<210> 12752  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12752

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tcaaccacat tgcaattata agtgtatfff tggaagaaga aaaaatgttt ttttaaataa 120  
aaatattatt tctcatcac gagtgagaaa taacacaagt tcttggtccc ctttttattt 180  
atattgctg actgtgactt agccgcacat gcaacagata aggaagagca acgtcatgcc 240  
ttcacttttc aatactgctt ggattcagaa aaaaaaaga gtgcanatat tctgttttg 300  
gagggagtgg aggtttcacc tgattagcag tttaggttcg gcgaaacagc cagaaatgaa 360  
acacagtgaa ag 372

<210> 12753  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12753

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taatccattg actctagatc actttcagaa tagtctactt gtattgcatt taaatggttt 120  
gcagcctcca agtccctgc actagctgag cttctcaatt gagagggtgc atcagacgat 180  
gtgcatgtta gcattgcatt ccacctgctt gcaacggaaa caatattttg agctctgtga 240  
gaaattcttg tcgcagcatg cagacaaata atgatgccca ccacctgaac aagtgtggat 300  
acctaaaaga aacaacagta caaaaagaaa tggtgaaatg aaaggaatta gttccttcaa 360  
tctaaatgcy tattaatact ttgaacataa agagttggac ttacagcana atctcca 417

<210> 12754  
<211> 348  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12754

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agggactcct tcattgatga gtaacaatgc attttgagaa tccgactcaa gatgatggaa 120  
gtgtagccag tatcatagc gatgcaaagc ctatgataaa tagcaaacia tttttcattc 180  
aaattaatat ttaatgtana tccacgatta tcattactag ttaatcacta ttggtgatgc 240

tatatgagtt ataagattaa cgtgatgatg gttgaaggaa gaaagagaca aaaattgtcg 300  
 gttaaataca ttttttaact aaactatcaa ttaacaacta tattaata 348

<210> 12755  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12755

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 ggctaaagtt gagtatgaga aaagattgca tgagcaagtg aagatacaaa gaagaatgaa 120  
 agttatgccca agcaagccaa caagaacaag aaaaaattgg tacttgaacc aggcgatgat 180  
 tatgaacatt tgagggcaaaa tgttttccaa gaaggaggga atgatgaaaa tcctaaaatg 240  
 gcacaaatac agggacctat gaccacgagt aggaccaaac agtcagtcaa tataccctcc 300  
 aataattggt atcagacata cttaacaagg cccaaatggg anaagatgaa ggcctagagg 360  
 caaagacact accaagaata ttaattggtg ctaaagaccc aaactaatnt gaaagcccat 420  
 gtcaaatatg ttctttttta attatatattt tttcattt 458

<210> 12756  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12756

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 ttaccacaga attcagactt aaccttccaa ctctcaaagc ctactcttt ntccactcat 120  
 aacaccacat tctcactntc caaccctagg ttaactctac atttcatctc taacagtttt 180  
 ccatgggcaa tttcagcata caaacatcat aaacatcatc acaaaaccct aaaacagaat 240  
 gggatatgtct aactcatcca aacatggcaa tttcaacaag ctttcaacaa gtttcttcac 300  
 aaataactat catgaagcag aaaactagca agactacca tcatatctnc canagcccca 360  
 tacnccacga aattaagaga gaaagaagtn cacccaaacc tgaattttcg aagtcccact 420  
 c 421

<210> 12757  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12757

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 taaagagagt tttcattgcc caaaaagttt tatcctctca aaagattaag agtttttctg 180  
 aactgaaatg tcttatcctc tcaaaaagat tccttggtca accacttgca tattcaataa 240  
 ggaattttga ttgatcttca ttgtacaatc tatctttttt aagagagatt tcttcttctc 300  
 ttcttcttac ttctgaaaag ggattaagag actgagagtc tcttattgta gaggattctt 360  
 gaacacaagg gaagggttgt ccctgtcgtg gtcagacttt gtaaaagntg ttttaciaag 420  
 agagtgganc atctcaagtg ggtttcttga ggactggacg t 461

<210> 12758  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12758

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 aatacaccta gagcatattc gtgatagata gattatgtgg ggtatttcag ttaaatttta 120  
 atttttttat tagttgaaaa ttttatttaa ttgtttaata aataaattct ttttaataat 180  
 tcttaatatg ttttagaatg ttaattcaac taacattttt ttattagctc tttatatttt 240  
 cttcactctt atcttttatg tatttattca ttttcttat tactttgttt aaatacatca 300  
 taattttatt attttacgtg tttcaactac ttttaaccgt agtgtaatta aacactttta 360  
 attttataag cttagcgttat aacattgccc ttattaactt ttaagtacca cttgac 416

<210> 12759  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12759

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 aatcatattn tgggttataat taaaaagagt aataaaaaag ataatgtgtg tcgttattaa 180  
 tataatttat atcaaaaatta atttaactag aaaaaataat ttaattctac agctaatttt 240  
 ttgtgaaaaa atatctaacg ggaagacggt ttcattggtat aaaaaaagtg caaaaaaact 300  
 acacaatgaa natttggttc cattttggat ttatacacag aaacatgttt ttgcaaaaata 360  
 tatttctca tgtatttttt tggacctcct tcttatacaa cgganacatg tattcattgt 420  
 tatgtttgag actgacnaaa tatac 445

<210> 12760  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 12760  
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 cagttgtaac attgacatat atatatatat aaaagatgta acaagttagg cttttatcaa 120  
 ccctatgatt ggaagaatag ttgtgcatca tattatatta tatctactac ttccacttta 180  
 tccttactag ttatgactac taatagtaaa cgtgatattg ccaaattcaa ctgatataag 240  
 cattgctcag atctgagtaa cttttcatcc ctgcgttcag tctgagccca ataatgaatc 300  
 aaatatgaga gcacattgaa attcgactga atatgaagca tccgtattcg gtgcagtggg 360  
 ttacagagac tgaaatgcc aagaatagctg gatattttat tccac 405

<210> 12761  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<400> 12761  
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 tcaactgcgta tgttgcctt ttcggaaaaa tcatgacctg atgcatgggt gatgccgtaa 120

atactatgct taacataaac ttatgtgcaa actttctagc taagaagggt gtgtctcaat 180  
atgttaatth catttcttga aactctctac acagagtgtg agattgaggc ttgcgggtcat 240  
tattgttggg aacttttcgg ggttgttgca gttcctctaa atggcatagc taatactact 300  
atthttctagt aggaactgct aattcatgct tattatggaa aacaattaaa cagtactact 360  
atgaatctat gatgtagtgg agaccttaag aactaagttg cggttcttga cgttgctgaa 420  
tgtcataaat tcagtttata atgatatatg agatgtta 458

<210> 12762  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 12762

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tgacatttgc ttacatgggc acaacaatcg ctttccatag tgagccagta ataaccggct 180  
ctaaggatct tcctggccat agcatgcca ttggcatgtg taccaaata acccccggtg 240  
attacctcaa tcatgtagtt cacctttttg gcactctacg attgtacgac ggtcatgtcg 300  
gggttcggtt tgtaaacgat ggtaccactc acatagaccg cctggttctt acgtaataac 360  
ttgaaaatgg gctcacatgt aggggtgagt agtgagataa a 401

<210> 12763  
<211> 478  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12763

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ataaataata aagtcattct gactcaaaga aagtcataata agtctcatal aattaatata 120  
gaacctatat cctaattgca catcctatca gagcatgggtg ttcacgtgtc ctctagcatg 180  
aggttcttca tagtcatcca cctattcatc tgctcccccg aacacaaagt tcaagatcat 240  
cacaggatcc aaacacaaac agcaaactgg gaggtagtta tcacattgct aactactaga 300  
gagaaacaac acaacatata gtagccaaat acaatttact tagcatatct cacattattt 360

catcactttg tcattcatca atcacacttt tcatccatca atcacacctt tcaatcatca 420  
atcattatac acaggaatca cacactccga tcaagacata ataacacatc aatttcat 478

<210> 12764  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12764

agcttgtaat aagctttaaa tgccttcacg tcatctgtaa cctttacaag ttcaacagtt 60  
ggcttctccc tcacaatagg caagaaagca cctggactt gtgttgcatc tgcaagctcc 120  
tcgggagtag aatcaccagc ctacaataaa acaacagttt cacatgacac acaaacatct 180  
ttcatttcga ccttcacag aaatgaaaat gcctaccaca atcaaaatag ataatggaac 240  
atctgaatta ccttaacctt gtgtgcccgt cttgggaaca caaccaattt ggccttgat 300  
gttttcagcc tctgcacatt agctggcaga ctntccaaag aacggttctt gcgacgatga 360  
tcaacagcaa tacctat 377

<210> 12765  
<211> 479  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12765

atgaaacgta tagattctaa ggtttttaat aatattacaa tatttggatg cattagactt 60  
gtactgtcct ctggacaaat ggaattagta atatatagca tgagtgcacg aggtgacagt 120  
tttgatatat aaataataaa acctaaaggg tacatcatat aaaacaaaac aacaaaaaag 180  
ccccctcan agtggacaca tgcatgccaa atatatatat atatatatat atatatatat 240  
atatatatat atatatatat atatatatat atatatatat atatatatat aattgtcaca 300  
tagatattag ttaatattat agacatgaat ctatctaata atctctccgt anagttcaga 360  
agacagatgg tanagaagag atacaactaa cattttatnt ntactgtctg cacataagta 420  
acagagaaca attgtatatt ataagttaac aattatgttt ttctctatat aaccacaag 479

<210> 12766  
 <211> 644  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12766

cacaacccca agcaaccaca ttccgcgacgc gagacaacgt gaaacacnac aaccgacaca 60  
 aacacattga acatgtgaac cgtgaaacca cgcgaaacacg ggtacgtcca gaggagactt 120  
 gagcgagac ctgcttgcac gtcaaactac tattcaaagc gacccaacg agcgagaaca 180  
 tcacgcgaga cacctcacgc gcaaccgaac acatacacta caccagacgg ccgcaaccaa 240  
 ccggacacac tagcgcaaac agacgcgtca ggtcaatcaa cacaatggca catcctacga 300  
 agcatggcaa gggagccaac cgtgcgtccc gtacacattg caccgatagc tcacagtncg 360  
 agcagtagca cacgctcgtg agcacagtcg tacacgaagt ctctaggaac gtgagagggg 420  
 gcctcctaac atccaacaag cccgcggacg cagaanacaa agcacatgag cngcaccgc 480  
 cgcacccaac acagcggaca ctccacacag aaataccgag gcactcaacc gcacactcac 540  
 aaaccaaccc atacgccgnc atccacaagg atcgacgaac gacaagcaga cggaaccgcc 600  
 cagtcagcga gacaataaca cgagatccta agcgacgcaa accg 644

<210> 12767  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12767

agcttcttat atcagttntg atctattntg tagtttccat ttaatctaata catatatatt 60  
 tgtcaattta tgatttatac acttgagtct tggaatttat ctgctgctgt aacatgtggt 120  
 catttttggt catgtctttt tcagattttt gagaaatatg ttaagaattg ggttgcaatt 180  
 tgtgcgccat tccagggtaa gtaattcttt tctatattta taagaagtat ggaattataa 240  
 ttaagggtat ttgatgaatg attcttttag catttcaatg atgggtctat ntaatttttt 300  
 ttccatgtnt aatatattgg aagaacgcac tgatcatcttt tcttcatagg ctaaagtagt 360  
 tgatggacaa aaaaatgtgc aaaagcatga t 391



<210> 12768  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12768

tcaagttggc aacaacaatc cattaagtca ccanaataca cttattagaa catatttcan 60  
 aataatcaag ttccctattc tttctatgat agtatgtatg atgcaatatg aaactggcctt 120  
 ttattctctt ctagaagggt acattactcc aaatcaaate tcatttgtac agcatcactt 180  
 caatcacatg tctctttatt ctcttggtta gttacagaca gaatggagaa nattaagaga 240  
 ctctttcttt agtcagaaat ggggggttacc aagagaaatt atcttggtta ttgggataaa 300  
 ttntgcaagc ctaaaatggc agggcctaca tcgcctggct ctcttggaan taatttagtt 360  
 ggatcttact agttataagt gaatattgat cacgatcgca tgctnttatt aattttatga 420  
 ttattgcttt aatttatttt ggtacattat caccatttaa tatct 465

<210> 12769  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12769

tagcttgtgt cagataatgc tgggatggat tctcgacatg ttagatggct gctacacgaa 60  
 gaagtctgtt ctgtgtagaa catcgggtgat gtgctggtga tcatgattag tgaggtcctt 120  
 actgagctgc gtccactgcc tgngtctgag tccaagctgc agctagatga gctcttcatt 180  
 gggctttagg cctctatccg aagtgtcatc atgcggatct gtactgaatt cattgtcctg 240  
 acttgcttgg tagacgatca gggcttgtat tggaggcctt tcatccacgc tcatgacttg 300  
 agtgccctca tccacagtgg gatgaggctt ggctggctcc ctgttgggac gacagggtgc 360  
 tacctctatg ctttctgcat agcgt 385

<210> 12770  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 12770

tctaaactnt atacaagaat gaagctctga taccacttgt tatacaagtg gtctcagata 60  
tcttaagaag ggggggttgaa ttaagatatt acaaactatt tccccatta aaattctatt 120  
tcactttcta ttcaagttac aaattccctt aacaatgaac ttcttaaata ttgattcaaa 180  
tagatcaatc tgaatataaa tataaaacaa taataaataa aagagtttaa gggaagagaa 240  
agtgcaaact cggatttata ctgggttcggc cacacccttg tgcctacgtc cagtccccaa 300  
gcaacccgct tgagagttcc actatcttgt aaaatccttt tacaagttct gaacacacaa 360  
gaacaatcct tccttttgtgt tcagaattct ttacaacaa gagaccctcg gtctcttaat 420  
cccttagag 429

<210> 12771

<211> 414

<212> DNA

<213> Glycine max

<400> 12771

agcttgatta acattctggt tcaaccatc tgatggatct ccatccctat tcctatctgc 60  
tacaaattta aaaaattagt caaacttggt cacaaattga tgggccaata ttgtgacatt 120  
cgtgtcagat acataactta catgcatttc tctctatttt aatcaattta attgggttact 180  
tcttaattcc tattgttact tccttcggcg gtcgtagatt attgtggtct taattaatct 240  
ttatatgaca tgtaattggt attaactatt ttcaaaattt acaagcttaa atacatcatt 300  
taaaaattgg ccaagaccaa gaatacatgc tatgggatgt ctgcatgtca agaccatgaa 360  
tacaatactg aacttaacca tctctttata ctcttctaag atatttctct atgc 414

<210> 12772

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12772

gtgtacatgt aaaagcaa at tgaagaactt cacattgcat atcatgctaa ttctgactta 60  
cctattttcg tatagggtgt agatagcttc gatctatact tggaatgaaa atagcaagca 120  
atctgcaggt agtcatatat atcttgtttt aaaataagca tagtcaaaga aaacaaactt 180

gaaggtgtat tcagttgcat tagaagtaga tcataaacca acatgttggt ttaagtggaa 240  
 ctgaacttaa tctcctttta gtaaggtctc aagttcgagt tttgtaaag aaaaaaacat 300  
 agttaggaag ggagatccca ctanaggtaa caagtcagt ttctagcaga gattaatcat 360  
 caataaaatt gacggatact ctatacta gtcacgacga caaacaaaaa taaaataaaa 420  
 cagatcataa actatataac ttac 444

<210> 12773  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12773

agcttagctc aagacccact aaaacctatt ttatgaataa gcctatttta agtttttttt 60  
 caataacact aatccaccaa ggaatatgat ttgtttcagt tttgatatag accatggacc 120  
 caaagcagtt gagtatatcc agatatgctg tattatttcc catcacttgg tttcacaatg 180  
 cttttctgct tgttacacct ccagttntta tgcagccaan attcaacaaa acatcaattc 240  
 tttaatatatt aagcgcaaat aactgttaca taattatttt tanagacaat gttgccttat 300  
 tctctattat cagaatacaa ttatttagca gttatcactg 340

<210> 12774  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12774

tattaaactc aatannaaag gcaacgtata attcatgcgg taaatacttt ttttcttttg 60  
 taccaaaagc aaacaaaagt aataatttga tataatgaaa tagtacattg cctaattgat 120  
 tctcgaccat ctgagaggat tgttccacag actgcaagaa cctcaaaact cgcttccaat 180  
 ttctccaca tctatcatat agtccctct gagaattcaa acccatcctt gcaaaggtaa 240  
 catgggaggc acacaattga aatgcagcaa agtcaaccaa ggacttgaac ttgaaagggt 300  
 gcaaaccatg actaccacca aaagttttgg aagtcaattc taaacanaca aggtccattg 360  
 cactgagcct gcccgagcac agaatttcta ataccaaatg tgatggcaat tcctcaatgg 420

aaaaatggtc tgcaacgggc tccatcctc

449

<210> 12775  
<211> 586  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12775

cccacagcca aggcgatcgg tgaaccggac ggcaaagcga atgcaaacac acacccaaac 60  
caaaccacga cccgttgatc cantgtagaa cntnntgaa naccntcggc acacncaagg 120  
gacgaancag acgcggaacc gcgagagcca cgagagacgt tcagcaggca tgtaagccca 180  
gcaatagacc agagcagcaa ggaggcatag gaaggcaaca acagcaccgc cagtgcacac 240  
acgcgataac agcacgacat gcgagcattg aacatagcga caccgcacag acaggaaagc 300  
cagactatac accgcaagaa caatccccgc aaagacacaa ccaagacgag ccacatacag 360  
gagaaaaccc acgcaaggca cgaagatcaa ccgcgcgaga gacaacagac gacagggtga 420  
caaacgaacc aagctaccac accaagcgcga aaaagaaagg cgattacgcc caggagacca 480  
accaccgaaa gcaacaaagc atacacgtga tacagctggg acgaggcgca aaaaaaggag 540  
agtcatagcc tgaaaaccaa accaccacc atgaacgaag caaccg 586

<210> 12776  
<211> 329  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12776

tggtacaata atgattgata cgaaaccgac attgttcgaa attatgatga aagccacaaa 60  
aacacgaatt gaatcaatag tctcggatct ggaaacttac ctgctgagga acgaagaacg 120  
gatgaagaac agtcattaac ggaagacaac cttcacggat tcgcttacga taacatctca 180  
gaagcgttac tgaagctcct cagcttggat tttcttcacg gaaactatct ttttcacctc 240  
caacagttga aatgcatagc cacggggatc atggaccctt agaacaggcc ccttttttgc 300  
ttcttatana gaaaaagtgt gaggaggtt 329

<210> 12777  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<400> 12777

cgcgttctag cttgttttaa gtataacaat ataggagatt gttcttggtt gattgataaa 60  
 gacttacatt ttaatcatgg gttaacgagt tatacaactg atggagatat attacactta 120  
 gttagggatg cttttgaaaa tgagaacgag ataaatgttt atttcatca tgaagtcaat 180  
 atccaatttt aaaagaagtc ccacagatgt tgtacttgga atgtgattca attccagata 240  
 ctggttgagaa tgaggataac ttatatgatg tacct 275

<210> 12778  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<400> 12778

gtacatatat taaaggcatt cgctgggttaa tcttgctata gtactctcgc aatgcgattc 60  
 acagtttcag gaacatatc aagtacaaga ttcaagtaaa cttcttcttt gtcagtcgtt 120  
 gaaaagaaac aatgccttag ggcaacaata tttggatgat ccagcatttg cataatttgt 180  
 aactctctat tcttgtatcg cttgtcctgg agaactttct tgatggccac aatttctcct 240  
 gtttctctac attttgccta ataaaagcat tgataaaacg aagaaggtat catcagtatg 300  
 tcatacatca acagcatggt gtttagaaga gatatgaaaa gcaaactcac ctgaaaaaca 360  
 acacccaaaag agcctgtccc cactacatgc tctgcaatat aactaacatt ctgtcaactc 420  
 acaaataaaa attatgtcag aggaagtatt ag 452

<210> 12779  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12779

agctntcttc atttgtcgat atggatgata atgtttgaga aatcttcggt gccttgtgta 60  
 tactatcttc tttccatggt ttagttggaa gaagctcata tttttctcac atataggaca 120

tgtatgatgg cctttgacac tataaccact taaatttcca tatgttggat agtcattaag 180  
 ggtgcaaaaa accattgcac gcaacctaaa ggtctgctgc agattcccat gccacacatc 240  
 taccocatct tcccacaatt ntgtcaagtc ttcgatcaac gaaatcaaat agacctcaat 300  
 atcattccct ggctgtcttg gagccactat catcatgcan agcattatgt acttttgctt 360  
 catgcacaat caaggaggga agttgtaa at cattagcana acagactatg aactgtgat 419

<210> 12780  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<400> 12780

atctacatag agtagaagat agatcattga tccatcctcc accttgttgc gataacacaa 60  
 caatcataga gacttctcta gaatccttgg ctggtgataa agctatcaaa cctcatgtac 120  
 cattgccttg gagattgttt caaaccatac aaggaccttt gcagctgaca aacatacctt 180  
 tcttttactt gaacttcaaa cccttcaggc tgtttcatta gaatattttc ttccaatctt 240  
 ccatggagaa aagcagtctt gacatcaagt tgttcaagtt ccagatcttg gtttgccact 300  
 atagcaagca gaaccctgat ggatgtatgc ctaaccataa gagataaaat ttcgttgaaa 360  
 tctattcctt ctttctagct gaatcccttg gcaactaacc tagccttgta tcttatccct 420  
 tccttttcta aaagaccacg tttcctcttg aatatccact tgcaacctac caca 474

<210> 12781  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12781

cataacctat gaaaacacat ttgatagccc gaggatctaa ctttcccaa tggggaccat 60  
 gaacatgaac aaagacagaa catccaaaga catgactctg aagattgggtc ataattgggaa 120  
 cagacagata aaatgtgggtc atgagttgag taggactaac accatttaaa acacaagaag 180  
 ttaacctatt tatcaagtaa gtagcgggta gaacaacttt cccagtaag atttaggaat 240  
 agacatttg aagagtaaaa ctctagcaac ctcaaagaga tgtcgatntt tcctttctgt 300  
 aaccaattt tgttgagggg tgtccacaca agttaactca tgaacaatac cattatcttt 360

gaggaaattg gaaaggggttt tattcacata ctctctccca ttattagn

408

<210> 12782  
<211> 429  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12782

agcttctatg gagactgaat ctttgagctt caatgaggtc cttcaatgat gatttttcac 60  
catggagatg cagcagaaga taaaggaaaa gagatgagag gaggcgatat ccattaagaa 120  
ataagccatg gaagaaggag tttcgtcacc aagaatgtgc cttggataaa aagcttggag 180  
agaatgtttc aatggaggaa aataaagaga gagagagaga gagaaaaaga gagaagggga 240  
gcacgaaatt gaaggaggaa aaggggggaaa gaagttgaac tttgagttgt gtctcacatg 300  
actctcattc atcanagtta caacaagtgt tacacatgtt tttatttata agcctatgta 360  
gtttcttgaa aaacttcctt gagtaagttc tttgancagc tagagtntag ttataaacac 420  
ccttctaatt 429

<210> 12783  
<211> 464  
<212> DNA  
<213> Glycine max

<400> 12783

ctctcttcca tggcttattc cttaatggat ggtgcctcct ctcacctctt ttcctttgtc 60  
ttcttctgca tctccatggt ggaaaatcac cattaaagga ccccatgaa gtcacaaagat 120  
ccagcctcca tagaatccct ctttgtaaac aacaaaaatt tctcaattga ttatttttcc 180  
ttgtttgttg attgttgcaa ttctcttagt gtagtactag ttgaatgaaa tagtgtgtta 240  
atctctcttc tccatttctc tagtttttat tttcgacttg aatcctttac gaaccctatt 300  
ctacaagttg ttgaactata ttccaaattt ctaccttggt caactatgga acataaaaatt 360  
attaaaggga ttttagaatt gttaatgcat tctgtgtcaa tttatgattg caatttgagt 420  
gtttaaccat atagcctgct accgacgcaa gatagacgga caca 464

<210> 12784

<211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12784

agcttgacat gctgccattt tatcaacaat atattctgct tcacatgttg acaaagcaac 60  
 tacactctga ttcattgagc accaagagat tagtgatgtt ccagaattga aaacataccc 120  
 agcagtgcctt ttcctatcat ccttatcacc acaccaatct gaatcactat aaccaaacac 180  
 ttctcctttt atattcttct gactgtaagg atataaaatg ccaagatcca atgttccttt 240  
 cacatacctc agaatcctct ntgctgccaa gaagtgaagt gcctttggtt tctccataaa 300  
 cctacttattc aacccaacac aatatgcaat atcaggtcta gtgttacata cgtatctcaa 360  
 tgagcctaca atttgcttgt acaaggtagg atcaacttct ttctcatccc catctat 417

<210> 12785  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12785

ntacattcaa atgcaaggat aaaaagactt gattgaatgg acctctcatg gtctcaagtg 60  
 tgtttacaac tcaataatca tataaccttc agataaactt tgcttaagaa acaaaaactg 120  
 aggtttgtaa gttgtaaaag ttcattcaaa cattttattgg atctgagaac acaagggtggg 180  
 tatatataga gaaaatagtt ataaccatct gtaattgatt aaattggcaa tgtaattgat 240  
 tattacgtga aagtaatcaa ttatatatttc caattaatcg attaaagtgt tcttccccaa 300  
 ttctagaaaa tataattgat tattttcaca taataattga ttacattgcc aatttaattg 360  
 attaaagtgt tcttccccaa ttntggaaaa cattcaagaa caatgtaatt ggtaaagtgt 420  
 ttcttaatca cttctaggaa cactttcaag aatgatgtaa tcaattacta ta 472

<210> 12786  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<400> 12786



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 cggattgaat tgaaaactcg ttaggcgaca tctgtcgtga agtagcgacc gatatttttc 120  
 aaccgacatt gcacaattct tttgataaaa actagctggg cgataatggc ctttttacgg 180  
 cagagtaagt tttcttggtt tgggtgttgca taaaaaagct acaatgtact tcggctaggt 240  
 ttttcgtgcg agttcaaccg acattttggt tcggccagga taacattatc ccacctctgc 300  
 aaaaaaatat ttgctaaccg tgtgcatgca tatgtcattc aacgattgaa tagaatactc 360  
 aatagccgac aacggtcgtg aaatagtcct gactgatatt ttt 403

<210> 12787  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12787

ntgatgcaac atttggagag gttaatgaaa caacgagatg atgcgctcca tgagatgttg 60  
 gatcttatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120  
 gttcctagac aaaaccgaat tgatggtatt aaactcaaca ttcctccatt taaaggaaag 180  
 aatgatccgg aggcctactt ggagtgggag atgaaaatag agcatgtttt ctcatgcaac 240  
 aactatgagg aggaccacaaa ggtgaagctt gccgccacgg agttttccga ctatgctctt 300  
 gtgtggtgga acaagctaca aaaggagaga gcaagaaatg aagagccaat ggttgataga 360  
 tggacggaga tganaaagat catgaggaag cggtatgtgc cggctagtta ctcaagggac 420  
 ttganattca agcttcanaa actaac 446

<210> 12788  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12788

agctntctgt tctttaaggt aaaggcaagt taaaatgggc tacaaaacaa acactttcaa 60  
 tgaatggcaa gaaaatcaaa tgcttggttg actacttcaa atagcaaacc cctttggtaa 120  
 gtcaagggat gcctgagttg taaatccctt caccctttga ttctcacgga taaaaaaaaa 180



ttcactttaa ctagcttaca actaacattc tttcctttgt tgcataatgt a 411

<210> 12791  
<211> 464  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12791

agtcaactgt catttatcta tcaatcttca ttccactntg tttcttcttc ttttacaata 60  
tctaaatcaa tttcccgagt ttgataagta atgaatgaat aacgtcaacc tgcaaataaa 120  
gaactgatac aaatgtaaca tattgtgaaa taatatcaaa gtagtttacg ttgcatcagg 180  
ctaaaaaaat atataaccaa tttcttttaa ttatattaaa tgaaagctga aatataataa 240  
aaatatagaa ttcttattaa aattctatta ttatgaattt ttcgcttgag aaattactga 300  
tacaattcaa aagttatagc acanatagct aagaaagata cttgactaca atctccaatg 360  
aaaagctaca cgtacacacc atgaaattga catttatata tacttataaa tttccacgaa 420  
ctacttatac cnggctaaaa ttacacagac taattaatta acct 464

<210> 12792  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12792

agcttataat atatcgatac gctcaaaatt aaacatcgaa nactctcgag aaattcaa 60  
ggccgtaact tttcacacgg atgtccgatt cgggcgcata atatgtcgag aggctcgaaa 120  
ttgaacaacg gaagctcttg agacattcaa atggtcataa ctcttcacac ggatgtccga 180  
ttcaggcaaa tcacaaatcg agacgtcaa aattgaacaa cggaagctct tgagaaattc 240  
aaatggatcat aacatttaac tcggatgtcc aattcaggcg catcacatat agtgacactc 300  
gaaattgaac aacggaagct ctcgagacat taaaatggtc ataacttttc aactgatgt 360  
ccgattaagg cttataatat atcgattcgc tcgaaaataa acatcggaag ctct 414

<210> 12793  
<211> 437  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12793

tgaatcggac atccgtgtga naagttatga ccatttgaat ttcacgagag cttncggtgc 60  
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gaccatttga atttctcaag agcttccgtt gcacaattct gagcgtctcg ttatgtgatt 180  
cgtctgaatc ggacatccgt gtganaagtt atgaccatat agatttctca agagcttccg 240  
atgttcaatt tcgagcctct cgacatatta tgcgcctgaa tcggacatcc gtgtgaagag 300  
ctatgaccat cttgatttct ccagagcttc cgatgctcaa tttcaagcct atagacatat 360  
tatgcgcctg aatcggacat ccgtgtgaaa agtatgacct ttgaatatct ccacaacttc 420  
catagtaatt tcaacgt 437

<210> 12794

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12794

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caccttttgg gcgtgttctt tgaaagatcc gtcccccttt ntgcaaagt tctgtagttg 180  
catcctatcc agaaccatat caaaattgta ctgatactgc ctaacaaagg caaccattan 240  
gtccttccaa gaatggactc gggaagattc caagttagtg taccatgtaa cagctacccc 300  
agtaagactn tcttgggaagg aatgtattag caattcctca tcttttgcgt attcccccat 360  
cttctgacaa tacatcttta gatggttctt gggacaagta gtcccc 406

<210> 12795

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12795

tgcaatgaaa gatattgtgt atttaggagt ctggtgtcaa tctagacaca caaccaagg 60

ccataattca aaataggttaa gatagaaatg atgatagtca ttggcacaaa tattgacttc 120  
 tgtaactgct actaagcttg caatggaaga tattgtatat atagtaatga actttccatt 180  
 cagtaacaca aatttgttta atttgtacgc tcaaattctat tagcttgtgt gttcaacttg 240  
 aaatcttaaa tttctatttt acatctttta tttggcatta tgtaacaaaa gatgcaaaaa 300  
 aaagtttact aaacgtttat atcagagatg ggcattgggtt gtttatatat tgcttgtctg 360  
 gcacacccca nattcttttt tgatntcctt tgtccgtaga ttagagttgt tntatatagt 420  
 tctagtttgt tgaggtaaaa tcaatattat acttg 455

<210> 12796  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12796

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 tataaaatgg cattggggggc ttaggggaag gggttcatcc ctttggcaa tcagatttca 120  
 cttaaaagta gtgaggataa gaagaaagaa ggagaaaatc aaggccgagg cgcttccgta 180  
 atgcttccat gacattntcg taatcaatta cgtgaacggt cttcgtcatt cttcattcgt 240  
 tcttcgtcgt tcgtcaatct tcaaccgggt agtnttttat ttcgaagctt tgaattcatt 300  
 ctatgcaccc ttaggggggc attcgtgcat tatatggttt catcttcac tcgtctactt 360  
 tcagtattct ttttcttt 378

<210> 12797  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12797

tgagtatctc anatagggga aaccttcttt ctatatccat tatccccctt tcctccttta 60  
 tccatctctc ctcttcttct atccccatca acccgtaaag tgtaaagcct ttcacagttg 120  
 tgagaggcta aaccccatg tttgaagcct agtggccaaa ctcttctaata gtaatacttt 180  
 cctattatct atttaatgca attatggntt ttattgggtc tttttgtgct ttattgttgc 240

tgattgtggt ttgatcaccc atactcatgc attgtttaag aagtaatgca ttggaaaatg 300  
 gttattntct aaagaactgg gaaatggcat ctaaataaaa tcatgtctag gaatagagtg 360  
 atgctttggt agcctatttc ttgcatcttt aatcttaat 399

<210> 12798  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<400> 12798

tagctttggt gctgaggacc tatataacat gcaccgggtt gtagtatatg gagtctgtta 60  
 acggaagaga gaaaatctta cggttttgca tttttcagtt tgggtgttact attcacgtgc 120  
 actgttcacg tagcaataaa aatttgtttt ctgcttcaaa ttgcaatttc attttctact 180  
 tctgcccttg aattcgttat cttttctgct gattaatgga aggctgagtc tccagtgttg 240  
 ctttctcttg gtatacgact aacttttgat agaaatcctt ttccaagctt gtatagttcc 300  
 caatttatgg tcattgtgaa gtaaatttgg taaataaatc ttggtttatg gttaatgttg 360  
 tctctagaac atttcca 377

<210> 12799  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12799

tcgtgtccaa ggatgacaag gtgcagtaca tgcaaagaga tattacattc cgctaaaact 60  
 taaatagtgt atgggcagga tatccagaaa tcatgcatat tgcattgtac ataaagtcac 120  
 aaacaagggt actcaagcat gttaatatct gcaatgtcca tcacattnta aacagatcaa 180  
 ggaataaagt caagagggtt acagcatcca cagaggcttc agctgcgcct ttgaaatagc 240  
 caatagatcc ctcaataagt cttctatatc cttgctctgg agcaattaga tgtggctgat 300  
 aaccatccgc ttccataaca actttttcga cattctttaa cgaaagatgg cgattaaatg 360  
 ggagctctct taatgcagct ggtaattggg ggtcaaaaac accatatatt ctatccccgc 420  
 caggacgtct aatatacaag ttggtactta gtcaaat 457

<210> 12800  
 <211> 377  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12800  
  
 agcttctcct tccatggatt attctctagt ggatgacgcc tctctcacc tcttctcctt 60  
 tatcttccac tataactcca tgggtgaaaa tcaccattga aagacctcat tgaagctcan 120  
 agatccagcc tccatagaag cttctcaagg aagcttccat aattntatctt cttacataaa 180  
 attacctttn tgtccatgag aatcatntgt aattggtgac catgaagatc tttgtatgct 240  
 taaaatattt atgattctca caacanattt tcaagtttct ttggagtctt caatctcctt 300  
 aatggaaatt agtttaaaaa ccatccttag ttgttccaaa actggtaaaa aaagacaaaa 360  
 ttcaccatgt gagacta 377

<210> 12801  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12801  
  
 tcatgtagtg tcagtcgtgt caattaggaa aacatgttat gtcctctttt ccaaataaaa 60  
 ctgaaacaag atgtaattat gttctttaca ctattcactc ttatatttgg ggtccaagcc 120  
 gagtcacatc ttttggtttc aagtattttg ttacctttat tgatgaatac tctagatgta 180  
 cctgngttta tttaatgaaa gatcaatatg aacatttacc tatattcatg tctttcttta 240  
 atgaaatcaa gaccagttt ggaaaagtaa ttaagattct tgcgagtgat aatgccaaag 300  
 aatatttctc ctctaattctc tctttggttt aaccacacaa ggcattttac atcaggccac 360  
 atgtcctcat acaccacaac aaanatagta t 391

<210> 12802  
 <211> 427  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12802

agcttattat catgtagcat gtgagatccg aanactataa tccctaataa aatcaagtgg 60  
 ctgtgagttt gttggaggac ttaaattcca ttcgcacaca aaacaaattt agaaaggaat 120  
 gaagaacttt aagtgagact aaactcatag tcgacctaaa aaaaatcaaa gatcaaggga 180  
 tcttaatgga aagccaaaag atagttacag aaacctacac acaacacatt tttagaaagg 240  
 gataaagaac ttgtgagact aaactcatat ganagattag cctcataagt gacctanaat 300  
 accanagctc ttnggatctc acccgagagc caaaagatag ttaccaaaac cttcgcgcta 360  
 caagcttagc acgtaacagt gagatcctaa nactataatc ccaaagaaaa tcaagcagac 420  
 gtgactc 427

<210> 12803  
 <211> 452  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12803

agtatcnttt atgatgaagc agctatgaag tattnttcac tatgtgaggc tagctgcata 60  
 aatcanaaga caccattggt ttctatcttc aactaaacct ttgtctagtc catttagata 120  
 aaatataaac ataaaaaaaa aatccagggt ttcatgtcta ctctagtcac gatgatcagg 180  
 ttttgggtta tgaaacacaa ataactctga aattttttga gagaactaaa taagaaaaat 240  
 cctaacaata aggggaaaaa aataattaag aaaatcaaga gatgtacaca ttacagatgt 300  
 acaagaaagc aggatagtga gaccctaga tcaacaaaaa aaaggatatt tagatttcca 360  
 aatgttttta ttatagggtt taggagactc agatttccaa atggttgtgc ccctgatgtt 420  
 attcctattg agtaccatgg tcaagtttac aa 452

<210> 12804  
 <211> 414  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12804

agcttgtaaa gtaaaatact tcttagatag aagtgtgata ttgtaataga aactgcaaga 60  
 cacacactaa aggggggggg gttgagtagg gtgtttaccg aagataaaag ctttttgcaa 120



taacacagat agtatgaatc atacaaagat aaacattggt cgtccactga aaataaaaaa 180  
 ttatgtagtg aagaacacag taattgtcta gtgacaagta aaaagatctt taaagagttt 240  
 caaaataagc acttgggtga aagtgatggt agaaaatata ataagaatac tcgataaaac 300  
 aatatggaga gaagtaaaaa cacttggctt atactgattt gctcaacctg agctacatcc 360  
 agntctcatt tactcactag taaaggggtgc actattcaag aactgataac aaac 414

<210> 12805  
 <211> 476  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12805

tgtggaagat aatgcttgng tggatttcgg gcatgtcaga tggctgccaa gcgaacatgt 60  
 ccgtgttcct gtgtaggaca tcagcgatac acctatgctc atggctgggtg tcgcaaccta 120  
 cccttcgacg agagggcgaa ggcaaaatag ataagccaaa tagttcgtct cccagggaga 180  
 atacgagcga agtcaccacc aacgtttatt cgaggaaaat gttagaaaaa ctaaaaaaag 240  
 gtccgcaaat ttgaaaaga agggttcaga agttgtttac gcatagggaa ggtattagca 300  
 cccacacac ccatcacaag ggacgacaac cttttaattg agtgtgcaaa aacgtgactt 360  
 caatattatt tagtttcctt tntatanttt tattntttta gggttgacaa ggggtgtttcc 420  
 cttgctccta cgtatcttca ggtgcgatga gaaattcana cctatgtagc tcttta 476

<210> 12806  
 <211> 422  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12806

agcttgattt gtgagttgat tctagcctta gtttcacttg gttatttctc aactcattta 60  
 aagggaattt tcaatgtaag tgtccgggtg aaacttgctt ttntttatga ttaaccgagg 120  
 tcacggcatg aacaatcggg tgaattttac tttaaaggag attatacaag attacaacac 180  
 aatgatcga ttgaaattca tttaaacatt gattaagtga gccttaaagg atgtcccctc 240  
 cattatgctc agtgtaacac caagtggatg tacgctccac ttgaactaat ccacaagaga 300

tgtactctct cttgtttctca gtattacaac ccaagtagat gtacgctcta cttgtaccac 360  
aaaggatgta cgctccaatg tgttaagaca aagatatctc anngcggtag tcctttgaaa 420  
tc 422

<210> 12807  
<211> 471  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12807

tgacttccat ctacaggtaa cagggatcat gaatacttgt gtatttcctc acgaaacacc 60  
ttaacatgac tggaaaaggt aaaagtctct ctattagtga caaaacaatg acatgatgca 120  
tttacggagc agtttaacga ggcgtgagtg gaagataacc agcccacaat aagactaaca 180  
cttgattaac taggaggcaa taattttgaa tcaagaagga tcactaattc agaatcaaca 240  
acaaatattc caaatgaatt ctagaaaaaa aaacatgacc acaatgtaca cacatatgga 300  
gacgtcaaan atcgcttgat tgggatagaa acatcagtaa tcaaactgtt tgacgtaggc 360  
tctcaacaca gagaatgaat tatactcggg cttgcaagta taattgagtt acttgacttt 420  
agaacgcaac acaaagaaat ggggtgacca gaactggaag gttagtcaaa a 471

<210> 12808  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12808

agcttgcaact tcaggatgtg taatgctggg aaaaaattat gatactgaac tacttgaata 60  
atcctcaagg gtaatcctct ggtcattctc ttctgccatg gtaatggctt taggtaattg 120  
agtggcagat tcccttgatg atgggtgaatc angtgataat aagtcggagg aatgagtctc 180  
ctcaagaatg gatgcaactg ttctatcttg cagaagtttc cttctcctct cggctcctgtt 240  
ccttcgcaat gtagcttcaa ttcttaagtc caaaggaact aaattgtgtg tgggagatct 300  
atgcatatac aatactaaca gaactgtgga acagacaaat agaaattatg agcgaatatt 360  
cacaaaaaca atcaaagaat aacaaataaa gaatagacac ctataaacga gctaacttcc 420

caaataa

427

<210> 12809  
<211> 473  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12809

tgtgcatata ggctntaatt tactgctaatt ttggctttgt tttttttgaa acaagatcaa 60  
gtggaggagg agaaacatat atacatatcc tttaaaaatg gttaccatgc ttgtcaaaaa 120  
tacatatcct tcatacacac tacattttgt caaattataa cctgaccata caccatTTTT 180  
tgagaaagca acttgagggt attgtgggtc aagtgccta gtatTTTgca tgtgccacat 240  
tcaaacagtc gttaaattcc tttttttgtc atcaacatga attttttctc ataattaaag 300  
gatagaggaa atctcatggt ctttgatatt gttgccatag taattcattt caacaaggat 360  
tgctgttagg gatagtttgg tgcttgaaga actgngtatt gttgaatttg atttatttcc 420  
ttttccctc attgccacac tatcatnntt tgttatgtac tgtcttgtaa cct 473

<210> 12810  
<211> 413  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12810

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gattcaatgt gagttgtcgg gaccaagaag cttaacatga ataaagacat aaaaaccaca 120  
tattgtagag taaaaaaata tttttaagct ggttacctt gaccatattt ataggcaaaa 180  
ggatgagggg ttatgtacgt tataaatcaa acaattacac cgttagagat ggggcatatg 240  
atgaaatctc caatgattag tttcactaga gtaacaaaag catacatttg aagcatataa 300  
tattcctaatt cctaccacaa tatttttagct tcttcaatat cagctgctaa gacaaaatag 360  
atattctcgg gtaagaatta agaattctta ccaagaagat agaaatatat aat 413

<210> 12811  
<211> 425

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12811  
  
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 catatgcatg attgagtaga gaaacatctt tatatgcac agttggtttg ttagaaagac 120  
 ccaacacctt tacctactgc tgtcaatcct acttacttgc atttttactg tttttagcct 180  
 agacttagtt taattttatt ttaaaccatc aattatcaat gtttctttca acaatgcctt 240  
 atttttgaat ttaaccctgt ctaatactag ttccctgagt tcgatactca gattcatctg 300  
 tcttaatttt aaatacttga cgatccagtg tgctttccag caaacggaat tttccttana 360  
 catatttgta taaagaaaaa ttggaccata aagtaactgt aggggacatc caacacagta 420  
 cttat 425

<210> 12812  
 <211> 408  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12812  
  
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 aatatatcga gacgatcgaa attgaattct gaagctctga gctaattcaa acgacaataa 120  
 tgatttgctc ggatgtctga ttgagtcccg taatacatcg agacgctcga aattgaatgt 180  
 tgaagctctc agcaaattca aacgacaata actntttact cggatgtctg attgagtccc 240  
 gtaaaatata gagacgctca gaattgaatg ttgaagctct cagcaaattc aaacgacaat 300  
 aacttttttc ctcagatgtc tgattgagac tcgtaataata tcgagacgat cgaaattgaa 360  
 ttctgaagct ctgagctaata tcaaacgaca ataatgattt gctcggat 408

<210> 12813  
 <211> 340  
 <212> DNA  
 <213> Glycine max  
  
 <400> 12813  
  
 tcagaattca atttcgagcg tctcaataga ttacgggact ctatcagaca tccgagcaaa 60



ggaagttaat atggtctctg gtaatcgatt accaatggtg tgtaatcgat taccaggcct 420

<210> 12816  
<211> 403  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12816

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gttccgagta cattggattt ggtacgacca tgccctctg atttccagct gggaaattgg 120  
cgagtggagg aacgccccgg catttacgca atgagcataa tgtaaaccctt tacggttttt 180  
aaaagctcta tagttggggc taggctntag agtttttctt tttgttaagg ctctgtgtct 240  
tttgtttttg aatttctaāt acgaggacct ttcttcatct gttcctgcgt ctctacccat 300  
tctcattcat ttgcatgttc acttcttttt ttgaaacggc agatccgatg acgagtcccc 360  
cgaaggctact antacctggg acccgcttat cgacttcgag caa 403

<210> 12817  
<211> 384  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12817

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acctggagat atgtcgtggg ggtcatgaga ccttgtggac gtcagggtgn gtgctattgc 120  
ccaaaaccaa gcttgaccaa tcccgaacca acccgggcat agtcggtcag agagaacctg 180  
tgatgtacct aaacaggcga gctcctggca gtcaacagat aaaaggaaca aagaccacaa 240  
agcaaggagg cttgtggagg ctggccagct gtgaactttg tgtaatatgt ggattatggc 300  
ctctggtaat cgattaccaa ggggtgcgtaa tcgattacaa ggcttaaaat tgaagacag 360  
aggctaagat ggtctctggt aatc 384

<210> 12818  
<211> 420  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 12818

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 ttccttgcggt cttctcctct ttttcgatgc ctctatcctt cttcgtttgc ctcgttttca 120  
 ttgcaggaga aattccttga gcaattcatg caggaagctt atgctttttg tggtcgggac 180  
 cgcaagaaat gcctcangta tgatcaccta ggtaatgtn tatccataag tgagttcaat 240  
 gatatttaaa attgggtcga tactgtagtc tagtagtggt tgttgtaatg tagtgataa 300  
 ttgtgaacc tagaaagaac ataattgttg cctgggggtg attttgtana ttagtggtga 360  
 tatatatnt gctgcaatca anttaatgct ntataatgta tcattctttt tacatctgat 420

<210> 12819  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12819

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 gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120  
 gttcctagac aaaaccaa at tgatggtatt aaactcaaca ttcctcctt taaaggaaag 180  
 aatgatccgg aggcctactt ggagtgggag atgaaaatag agcatgtttt ctcatgcaac 240  
 aactatgagg aggacaaaaa ggtgaagctt gtcgccatgg agttttccga cgatgctctt 300  
 gtgtggtgga acaaactaca aaaggagaga gcaaganata aagagccaat ggttgataca 360  
 tgggtagata tganaaggat catgaggaag cggtagtggt cggctagtta ctcaagggat 420  
 ttgaaattca agctccaaaa actaacc 447

<210> 12820  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<400> 12820

acgcatgtag ctttggttatt gaagttgggt tctgagtcac caactaatat tttaatgaca 60  
 accacagaat ataacttcga tctgatccaa ttaagtcaat tattagtaac aaatttgctt 120

tcaactccag ataaatacgt attatatatc atacggtgaa atgtgtagtc tctgctgcta 180  
aatcaactaa ttaataccac ttacgtgtat ggacgtaaag aataattata taataatcta 240  
tatggaaact atg 253

<210> 12821  
<211> 435  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12821

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ttgctttgca aatgatctat atgtttcaca ccccaaacat ttgggtaact cattgatatt 120  
taatacaaac ttttattatg cagattagca gggatgaagct ccaattatga ttaaaaaaca 180  
gcatgaaaaa acatttaaga cactacattt aagttttgtc catgtaatta aactttcata 240  
tttgtccctt acattataag caacaatcac tttaatcctg attcttttta agggtaataa 300  
tatgtggaca cctttacaga ctatttctct ttatatctct taccctatca catcatatat 360  
ctcagctatc atgcctacac ttttctctag gtgtcattta gctcttagat gtccttacat 420  
tacaataaga ctaat 435

<210> 12822  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12822

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tntatatata tatatatata tatatatata tatatatata tatatatata tatatatata 120  
tatatatata tatatgtcgt gtctttgtgt cctttgtttt gaaattttgt tgcgctctgg 180  
tttatccgcg ctcgtttcgt gttgtgtctg agacaatgca ttttgttaca aaatcatcca 240  
catacaaaat acaggaaacc atctgtccac tctcccatc acacacacac acacacacac 300  
ttactntata gccatganat tcggaagaga gtgagaattg acgctcgctt cacagctccc 360  
tgtgatggcg cttgagtgat gacactcata gaggtgacta gg 402



<210> 12823  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 12823

tatagaatat ataatattaa taacaatgac aattgaagaa tctatacatg tttcctttgg 60  
 tgagtctaata tccattcttc caaggaagga ttttttagat gatatttcag attccttaga 120  
 agatacacat attcatggaa atgactctaa agaaaaagat gaaggaagca ctgaagattc 180  
 tcaagataat gaagttagag cacataatga acttccaaga gaatggaaag cctcaagaga 240  
 tcatccccctc gacaacatta ttggtgatat atcaaaaggt gtaacaacta gacattctct 300  
 taaagattat gccatgatat ggcttttgta tctatgattg aacctaaaaa tatacagcac 360  
 ttggttcgct agcaagcggc caaccaccgg gggcaggtgc agatacatga ctgtctctac 420  
 cagc 424

<210> 12824  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12824

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 aatctataac caaagactca gaaaaagggg gtcattccga aacatctcct gtggttcttc 120  
 aaaaagggtga gaaattagaa gattccaatg caaatgtgtc tcatttagct actgaacctg 180  
 atcctccaca gctcaattct agaatcaatc agagaccaaa aagggtcact aaacctcctg 240  
 aaaaatatgg ttttgaagac atggctgcct atgcattaca tgcagctgaa gaaatagatt 300  
 caaatgaacc tgccacctac aaagaagcta tcaatcatcc tgaagctgan aattggttgt 360  
 tagctatgan agagganatg gaatctttat ataagaatca tacttggaaa cttgttgaac 420  
 tacctaaa 428

<210> 12825  
 <211> 478  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12825

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gttgactctc cacatccaca aatcacacat aaatccacca tccccagttg cccaccttca 120  
actgagctca cgtactccca cgtagccctt atcctcattc ctctcagcac cgggtcccca 180  
tcaaccctc caagcttct caatatccaa gcaattcaat atccaaacat catgaactac 240  
cctaaaccaa gaaaacaggg tagaggcaga naactctgcc caaaaacaca ttccaatacc 300  
acagctntcc ttactcaa atccccagtaa cattctcttt gttccgattc gttaaccgtt 360  
ggatcgactt gaaaatntta ctggagggtc ctagtatata agtctacatt ntgaccgttt 420  
gatctgctag aaaatgtcca gaacccaata tgtactaccc ttttcacaac cagcaata 478

<210> 12826

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12826

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gagaaaaacc tttggccata acttatgcat catcaatttg gaaacttctt tcaaagactc 180  
tagagactaa cttcatcatt tatcttggat ttcttggagt cttgttttgg atcaaacttg 240  
agaagtccgt ttctttggca tcatcaaaac atcaagatat ctttgcttct acaccttgct 300  
ttgatttata agtggatgga agttggaacc taattggatt gtgtctctga gtcgaccttg 360  
gttattccta tactacaaaa ttgttgaaat tcacgtttgt tntgagacga ttcagcattg 420  
tcatcac 427

<210> 12827

<211> 447

<212> DNA

<213> Glycine max

<400> 12827

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 tgcacctctt tctatctctt ttggtaattc tttttccgta acgttacgaa actttacgaa 180  
 tttcgtaacg atacttattt tccttccgca aggttacgaa tccttacgga ttatgtatct 240  
 actctctctt agctttcgaa gaagttacga aaacttacgg attgcgcaaa acacctcttt 300  
 tcgatttctg tcacattacg gaatttcacg gattgcgcaa gcctgcttcc ttttgatttc 360  
 tgacacgtct cgggacttca ttcatgtgac aaccaaggat gccaaagtgc ccgaagcgac 420  
 caatcaaagg ttgtatatca tcaaata 447

<210> 12828  
 <211> 294  
 <212> DNA  
 <213> Glycine max

<400> 12828  
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 cgatcttggc gcatactatg tcgagtagct cgaaattgaa catcagaagc tgtcgagaaa 180  
 ttcaaattga catagtattt cacacggatg tcatattcgg gcacataaca tgctgagatg 240  
 ctcgtaattg taccacgaaa gctctccagt aacttcaaat ggtcataact tttt 294

<210> 12829  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 12829  
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 tcattttcga acgtctctat atgtgatgag ccttaattcta acatccgtgt gaaaagttat 120  
 gaccatttga atttctcaag agcttacgtt gttcaattat gagcctctcg acatattatg 180  
 cgcccgaatc ggacatccgt ttaaaaagtt aagaccattt gtatttctcg aaagctatct 240  
 tgggtcaatt ccgagcatct cgacatatta ttgcccgat tctgaccttc gtgtgaaaag 300  
 ttatgaccat ttgaatttct cgagagcttc caatgtttaa tttcgagcga ctcgatatat 360

tataagcatg aatcggacct tagtgtgaaa agttatgacc atttgaattt gtcaagagc 419

<210> 12830  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12830

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gagggatctg cggaagaaac tcagtttaag ttagtctaaa cctaagaggg ctatctaaat 120  
caggtcgagt cttacatgag ggatctgagg atgaagcttt gatattcagc ctgacgaggg 180  
atcgaagggt tagtaattta tgctatagca tagaacacaa gagcacgatt gattagagaa 240  
atatatttcc atgcatcagc ttgtttgtta taaagaccca acatttctac ctattgttgt 300  
cattntattt accttgcatt ntatagtttt tagcataata gtttatttta aattntgttt 360  
gaaattatca tttatacatg ttctctcaac aatgctttga ttctgaactt aattcaggct 420  
aacatta 427

<210> 12831  
<211> 471  
<212> DNA  
<213> Glycine max

<400> 12831

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cgaaaaatga tgaccctagg gctgcaaact cgtcaatccc gtgggtatgg cttttgaaag 120  
gggggaaaag aagtttttga atgcaaaaac gtccccctt tcatcattct tataatttgg 180  
tgtaggggtg gctcgcccag gcaagctcag ctgcccagg cgagctaacc tgcatttttt 240  
ttttttttga gaggaacatt aaccatgtcc cctccttctt tatggtttag cgtcttgctt 300  
aacttgaact tacttaagtt agagttaggc gttgattact tattttttaa aaaaacaaat 360  
agtaagacaa ctgcgaatac aaaggatacg gggctgcctt gcagcgacgt tctctgcttg 420  
tctagcgcag agaatagggc aacgatcagt cggctcgtgac ctcaccccca c 471

<210> 12832  
<211> 426

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12832  
  
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 ccctagcctt gcaacaagtt ctagggaagt agacacggag atggacaaga aaatccgcgg 120  
 tattgtgagt agcattttga aagaagcttc tgtgcctgat gctgagaaag atgttccaac 180  
 atcttccacc ccgaatgttt ctgtgcctga tgttgagaaa gatgttccaa catcttccgg 240  
 cccaaatgct gaagccctcc cttcaccag tgaagaggaa tcaacagaag aagaggatca 300  
 agcctcanag gagactcctg caccacgggc accagaacct gctccaggtg acctcattga 360  
 cctggaagaa gtagaatctg atgaagaacc cattgccaac aggttggcac ctggcattgc 420  
 ggaaag 426

<210> 12833  
 <211> 476  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12833  
  
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 tatattntaa gagagcacia atcatagact tatccaatg atcttgtatc atacaagtag 120  
 ctttctcact atcttttctt ctttaagttgc ttttgacctt attgtaacaa cacaatttat 180  
 tctttttttt taacatacaa cttatttggt gtgtgtgctg atgcttaacc tttatctttt 240  
 cattctaatt gacttccctc ccccaaattt agagtaactt tgccttgaac catatgctct 300  
 cctaaaatct aaacaaggta ttaggagata attatttaag tttagggttc aattcatgac 360  
 aaaatcattt agcttatata gggagcaaag gatgcaatta tcattcaagg taagctcttt 420  
 ggtcaaaagg ctgtgtatg tacaatcatg gccttcatca tgtcctcatt tataca 476

<210> 12834  
 <211> 404  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations

[illegible]

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tcaacttctc tccctttttt ctctccttcaa ttctgagctc ccctttctct ctttctctcc	180	
ctctttcttt tctctcattg aagcatcctc tccaagcttc ttatccaagg cacatcttgg	240	
tgggtgaagct ccttcttcca tggcgtattc cctagcggat ggcgccgcct cttacctctt	300	
ctcctttggc ttgcgctgca tctccat	327	

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<223>      unsure at all n locations
<400>      12836
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5426



<210> 12839  
 <211> 367  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12839  
  
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 actgcgcccc caaatgcgca agtaagaaga gataattttc cgggctctcg tgtccgtaaa 180  
 atgcattcat atcatgcac gcataagcat ctcttcataa catcataatg gacataatcct 240  
 gcatttgtcc gttatcatat tccggcctca cattttgcat gagtcatggc atcatcatgc 300  
 atatgcgttc aacaaacatt ttgatctgca aaattgcata ccatttgttn tcatgtttgc 360  
 tcatcct 367

<210> 12840  
 <211> 400  
 <212> DNA  
 <213> Glycine max  
  
 <400> 12840  
  
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 agaggggaaac tgcccaagtg tcaactccga acgcgactcg accggacgga attccaacgc 120  
 gacaaggaac ttccctccga ggccgttgcc ggaattcacc ccgctcccaa tgacgtacaa 180  
 agatcttcta ccattccctca tcgccaatca tttggcccg gtaactcccg gaaggggtcct 240  
 cgaacccctt tccccgaagg ggtatgaccc taatgcaact tgcaagtacc atggaggtgc 300  
 ccccgggcat tccatcagaa aatgctcgcg ccttaaatac caaggccaac atctaattgga 360  
 tggcagatgg ctgactctcc aagaagatcg gccaatgtga 400

<210> 12841  
 <211> 338  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12841  
  
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tttgaatatc ctactttgat gaataggaag cctatggcaa atggagagaa taagaaggag 120  
ggaggaaccc atgctatgac tgtcattcct tcatggccaa atttcccacc agctcaacaa 180  
taccaatact aagccaatat cagccattct cattaccac caccctatca gccaagaaca 240  
cccaatcatc cacanaggcc acccttaa atccacaaa acccgctgc tgcatatcca 300  
ataccaaaca ccacccttaa catgaaccaa aataccga 338

<210> 12842  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12842

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ctcgtttaac ttaaaaataa aataaatttc caccgaacgt ttgaattgta ctatccatta 180  
acttcggtta aaataaattc cgaccgttcg gtcatgccgt aaccacgttg gaaatcaaaa 240  
agaggtaaaa aataatataa taatcaaaaa gatattttt agtaaaaataa agcggaaaat 300  
caagtggaca ttgtctcttt gggatttctc attcttaatc gaattgatta ataactaaag 360  
tgaaactaaa ggctaaaaac aattcgtcta gtcgagctcg tccataaaaa ataggctttt 420  
gaaagtggc atttcatttt ctactaagt agaatggatc at 462

<210> 12843  
<211> 624  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12843

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ctgccacagt catagacgca tgcattagct tgtagtanag taagcatacg tcacaatata 180  
tgctagcact gtagcatata gctgctcgnt cggtcagact gactcttaat gngatctata 240  
gcgacatctt cacgacataa tactgaggca cctagaatac tctgcggtct tacaaggaaa 300

acagatgaat catatgtcat catactacat gtcacaagtc gcgccacgat acaccgtgga 360  
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 gaaatactga gcatcagcat gctggacgct ttgcttgtag actggattta gctaatatcg 480  
 tcacacgaag ctgacatgat acacaaacag gcatctcatc tagcaccctt ctgttcccgt 540  
 gcgctttcat aatatttgac agtctttacc gtctaccgtg ctatttcgcc gagacagagg 600  
 gcatatcgac gacgccacca ctan 624

<210> 12844  
 <211> 453  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12844

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 gagtcattga tagccaccat catcaaatat taaagagatt acttcagagg tgatcattat 180  
 aaaataaaac tgtcaaagag aacattttgt agtgtcacia tgtataaaaa tgctcataca 240  
 taacatgccc cagatcacat agaagaaccc acagcataga acaagcaaga aaatggtaga 300  
 gctatacagt cctactaaag atagtgaag agatatctaa gagaaagggt aagcacattt 360  
 tgaccttaaa actcgtctta cagatagct tcctttattt ccttttcaag agatagagca 420  
 acttcttaat gtgcgagaga caattgtttg tac 453

<210> 12845  
 <211> 336  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12845

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 ctttttcaga aacatggcaa tgtctgcttg ggaattctag atggcactga nataggacta 180  
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<213> Glycine max

<400> 12848

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tagatatcga gctcgcattg cgaccgacga ccgtaatacg atctggcctt tgattccaga 180  
ctcagggatg cctgccgatc ttgaaacctc gcttatgatg tacagtgct 229

<210> 12849

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12849

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aacctaattg ccagttttct acaaggagcg cataccgtat gctactagaa ggagcagctg 180  
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caacatttgc ttggcgattg atcaaagaga gactcccaac taaagggaat ttgtggagaa 300  
gacgggttca gctgaacgat ttgatgtgcc ctttctgcag tagacaagag gaggaagcct 360  
cccaccttgt ttttaactgt ccaagaattc tccccttat 399

<210> 12850

<211> 476

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12850

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tcgcaacgtg cccttttgcg ggcgagcgag gcgaggctca cgggtgcgtt ttccaaagga 180  
ggaaagatgc gcggagtcgc caccgacgtt tatttgtgga aaacgtcgga aaaaccgaag 240  
gaagccgatc aaaatgaaaa ttctaagttt gggagttgta tttacgcttg aggaaggtat 300

tagcacctct cacgtttgtc tcanaggaca acagcctatt ntttagaatt gtggaattgt 360  
 gttatcttaa ctcttatttc tttatatttn ttgaggtcga caaaagcggg gctcttgctc 420  
 ctacgtaccc tccatcagag aggaaatcag acctacgtag ttcttcctta tgcgtg 476

<210> 12851  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12851

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 gaaggctaaa cggaaaatta gggaaacttag aaaaactaaa tccttaactg aaggcgtagg 180  
 tgacaatcat agtgaattac taaacaagat tggtagttta ctttaaggta ttccagatac 240  
 tccccagcc tcggaaaata cttctaaaat ggtaacaaga agtacctcca aattaattaa 300  
 tgttattaat gaagatagtg accaaaactc agataacaca actgagatag gatcagtatc 360  
 agagaagaat ataaatccaa ttaattccaa aaactggaaa acaccctcca aattatatta 420  
 tcaacgt 427

<210> 12852  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12852

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 tttgagcctc tcgaatgtcc tctagtaaag tatatccatg gaactacctt ggtcgataag 180  
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 gacgggagga caaggcgaga tcgaaaaagg cgtcttctca tgaagaaaac gtgcgggagt 300  
 cgccaccaat gtttattcga ggaaaacgtt agaaaaacca aaaagaggtc tgcaaattnt 360  
 gaaaataagg gttctggagt tgtttatgca tagggaaggt attagcacc caccgcccc 420

gtcacaaggg acgacagcct ntaatcgagt gtgcataaat gtgac

465

<210> 12853  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12853

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ctgtcaaatt ttgtgcaaca gaaaattgtg tttgtgcaga aaatgttgtg tattgctggt 180  
tgtggaaagg gtagtacata ttcggttctg gacattntct agcaaattccc aacggtcaaa 240  
atgtagactt atgtactagg gacctccagt aaaattttcg agtcgatcca acggtgaacg 300  
aattggaaca aagagaatgt tattngngta tttgagtaag gaaagctgtg gtattgggtt 360  
gtgttttggg cagagttttc tgccctctgcc ctgttntctt ggttctgata atncatgaat 420  
gttg 424

<210> 12854  
<211> 491  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12854

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agcttctcaa ggaagctacc tagtgataa atagaagcat gtgtaacact ttttgtaact 180  
ttgatgaatg agagtcttgt gagacacaac tcaaagttta acttctctcc ctttttcttc 240  
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atcctctcca agcttcttat ccaaggttca tcttggtggt gaagctcctt ctccatgct 360  
tattccttaa tggatggcgc cgctcttac ctctctctct ttgtattccg ctgcatctcc 420  
atggtggaaa atcaccatta aaggacctca ttgaagctca nagatccagc ctncatagaa 480  
gctccacaag c 491

<210> 12855  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12855

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 tggcttcttt atatatagaa ctagctatat atgggcttgg gtttacagat catttgttta 180  
 acccgtagt tatacgggtt tgagtcctg ggttaatggg ccagttagta gacaaactac 240  
 tttttgttta aaaaatatta attgctatct tatactttta ttctttaatt aagtatttgc 300  
 ataattatta tttggtgttt ggtaatatat gtcgacctcc ttggtagtac ttgaatattt 360  
 atgatttctt gttgaaaaag ttaaagatat tgagttctta atgctntatt tgatttgaca 420  
 cttgatt 427

<210> 12856  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12856

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 ggtaagtata atcctatgat tccaattga cttgaatttg tgatctctct ctcctttatc 180  
 ctatatcttg ttcttcaagc aggggctaaa ggagctgaag gaatccacca tccaactggc 240  
 ttcaagtcac ggatacattg attcccctgt tgatgagact gttttcgatg tggataacga 300  
 tgttgatgac cttctgccag ttgaagttaa agaacagcgc ctcagcaatc tgctgcaggc 360  
 attgatgggt gcggcttgtg ttgctgctat gcctcttttg aagaagatac caacttcagt 420

<210> 12857  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 12857

agctntaact tgagtcacat aatgattata aatatgtgac catggcacga atttcaagag 60  
actgatttcc ttttatgcat aacaaatttc tttcattcaa ttctcttcat ctttctaaaa 120  
gtttttgttc aatactttct ctttcaagaa aagttccttg accaaaaact tgtgctattc 180  
tttntcttta ttcttctct cttgtcaaaa gattgaaagg actaaccgcc tgagaattct 240  
tttgtttctt ctttctccc tcttaacaaa agatttcaa tgactaacca cttgaaatat 300  
cttttgtttc ttacaaaaga tttcaaagga ataaccatct gagatatctt tnttctttt 360  
cccttanaca aaagatttca naggactaac cgcttgagat atctt 405

<210> 12858  
<211> 465  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12858

tgaagtgaga aagtatggaa gagtcatatt tctactttt attcgttgac cacagtggta 60  
cctggagata tgtcgcgagg gtcaggagac cttgnggacg tcagggtggg tgctattgcc 120  
caaaaccaag cttgaccaat cccgaccgaa cccgggcata gtcagtcagt gagaacctgt 180  
gacgtaccta aacaggcgag ctctggcag tcaaccaata aaagaataaa gaccacaaag 240  
caagaaggct tgtgtggtgg ctggccagct atggatcttg agtgatattt ggaatatggc 300  
ctctggtaat caattaccaa ggggtgtgtaa tcgattacaa ggcttanaaa tgaagacaag 360  
aagttaagat ggctctagt aatcgattac aagggtgtgt aatcgattac aaggcttaga 420  
aatggataca gggagttgag atgacctctg gtaatcgatt accaa 465

<210> 12859  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12859

agcttgctgt atatccacgt angaacaaaa tcttaaataa gatcggctct tatacaaaaa 60  
atatgatctt aaaaaatttg tggatcaaca tgtttgatt tatctgacaa agtgataaaa 120



tgtaatggtg tgtagttatt tgtagaactc atttaataca atttgtaaag ttaccggatt 180  
 agaaagataa tgttctttaga ttattactca agtattatat acaataaaca taatacaaatt 240  
 aatcaagatc aagaaaaatg gtcaaattga atgttataga ttaatactat tcaataaatt 300  
 taaattttgt ttctcaaattg ttcttacatc taaatgttgt aatgatatg gtgatattaa 360  
 ttttgacact caaattcaat gcttgagtga atacttaata aatagagttg ataata 416

<210> 12860  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12860

tctatgtaag ataaataact acaaataatga ttttctttat atatgttgcc ctattaagta 60  
 ctggaactgt gagaaagcta ccaaactatg aaggtataat caatggtctc tctctatggt 120  
 ctccttgnga ttttgngatt cttttcatct gtctagtctt ggttggtggct acccaagaaa 180  
 ttgggtggag ctcatggctc ttgtggaatg gtgctggcag tctccatcca aaaccgtctc 240  
 catcctgaag aatctctgtc acatttaatg gctcagcctc agaanaaaaa aaaaaccata 300  
 tatgatgata ttttcttact caaagacaat aaattgaatg atgagaggta actttacaca 360  
 actgattttt cgttttcaaa gaagatattc ttatttgtat taacagacac aggttaatat 420  
 ttgacactat aataggttaa atgtcatttt aat 453

<210> 12861  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 12861

ttaagctcat tatctccagc agaagaagag gagaccatgg ccaccgcatg gaccctcca 60  
 aggacaacaa ccaaatttat tgcaccgaaa tgacgggagt tacaagccat ctacacaacc 120  
 aatgcctag cctcggcacg aggcatatca ccaagggctc caccactggc aggatccaac 180  
 aaacagcgac tcaatgacgc aaagtccac ataacatatg gagaaagaga agctcacaaa 240  
 cctggagatg agggcaacta gcgcacaact tcaggaacct ccactaaggg gacggaagcc 300

agaaatagca tgtccgatgg taggagcccc acacgcagag aagaactgct cacaaacacc 360  
 ctctaaggac atcccagcag aacatggacc tgcgaccaa gcagataatc aaccgtcag 419

<210> 12862  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<400> 12862

tgtgcggatg taacagacat cgcctttgac cttggtgatc cttgaatcca tctcatcgaa 60  
 tcgcatgtca gcttgtaact ccaaagcadc aaacctttca ccaacaaaag tttgaagacc 120  
 atcgaacctg accaaaatct tttgaagaag agaggaatct tctccaacta ggaagtgcac 180  
 ttcttcatca atgggtttgtg cacctttttt caccgaagag ccatcatgct ctgtacggta 240  
 accaaaagat tcaatcacia cggcgccaat taagaaggat ctcttgattg gaagataatg 300  
 ttcagaatca agagggatgc taaagtgtcg aacgaagaga gtgactaagt gcggatatgg 360  
 aaatggagca tgtaatcgca atgccttatg catgcgacat ccgactaaga gcgccgaatc 420  
 aatttgttgg agcataccct aatttc 446

<210> 12863  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12863

agcttggata ttcagcctga cgagggatcg agggtttagt aatttaggct acaacataga 60  
 acacaagagc atgatttatt agagaaatat atttctatgc atcagcttat ttgttagaaa 120  
 gacccaacat atctacctac tgctgtcatt ntattttacct tgcattntat agtttttagc 180  
 acacaagttt agtttaaatt ctgtttgaaa ttatcactta tacatgttct ctcaacaatg 240  
 cttcgattct gaacttaatt caggctaaca ttangtcctt gtgttcgata ctcggtattca 300  
 tccgttntaa ttntaaatac ttgacgaacc agtgcgcttt ccggtgaaaa ctccccaatg 360  
 aaatttcctc gagacatana tgcacaaaaa gtaactgaag t 401

<210> 12864  
 <211> 453

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12864

tcttatccaa ggctcatctt ggtggtgaag ctcttcttc tatggcttat tccctagagg 60  
atggcgctc ctctcacctc ttctcctttg tcttcgcta catctccatg gtggaaagtc 120  
accattaaag gacctcattg aagctcanag atccagctc catagaagcc ccacaagtaa 180  
gcttccatca agtggtaatc agagcacaag agcttcaagt agtgctcct tanacctcca 240  
ttaattnttt ttctttacct tctcttccat tgttgtttct tcatttttct ccatgtatct 300  
cctcacatgt cttgttctaa atgctgttaa catgattctt tagagtttcc accgattaaa 360  
cttgctatag aagctagatt tgattntcta tnggtgaaat ttcttgttct tgttcttgaa 420  
ccatgaattg tgttgagttt aagttccttt gag 453

<210> 12865  
<211> 348  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12865

gaccgtgtga gcattgaaca tgaaacgcnn ntcaggaac caggagcatg agacgtcgcc 60  
gttttacctt ttagagcggc caaggaatag gggccgcggg aagtgacaaa acacgaggcg 120  
agacaaacaa cgtacaacgg aagaagcacg tcgttaatga gaagaagcga cggcatcgca 180  
cgagggatac gaacggagaa agggcagaag actccctgca gaccggtgga aagaacttga 240  
aaggcccgtg tggtagaggag gtagaccaga acagaaacat gaatggcctt tgcactagcg 300  
tcgcgccggg cgaccagca gcagcccccc ctcacccga agaaaacc 348

<210> 12866  
<211> 247  
<212> DNA  
<213> Glycine max

<400> 12866

ggctgacctt gactgaacaa gatactgcgg accaactttg gctacaattt gggtagaact 60  
ccggcttaca gctcccgacc agcgggttcg gtcgatcttt ggctaagtgc acccgcaaaa 120

acgggcaggc aaatatgaat gagagacggt catgctcgct tttaaggat gaacatttaa 180  
 attcaggag gccactaagc gaaaggaggc ggaggacata aagcgcttat aaagagactg 240  
 atggccc 247

<210> 12867  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12867

tagggaacgg taatttatac gaactcgcac ccaatacggg gtattaagga cttggtgaag 60  
 actganaagc tctgtgctta gatgattaaa aaacacacca tcattcgtca gttcacgctg 120  
 atctatggca agataataat gacattcgtc aagttatagc acggcactag aactcaaaaa 180  
 ctttttaagt tccttcatat aatattcatg tatgattata aattgtcctt gaagttcaaa 240  
 atatatttaa aaaagtgaat tcactatatt aatattgtcc tcacaagact tattcttata 300  
 tagccttggt ctttgagtca cacattctta agatatttcc ttttacacat gttcttctaa 360  
 ttagacattt ttaatacatt ctctcttatt 390

<210> 12868  
 <211> 178  
 <212> DNA  
 <213> Glycine max

<400> 12868

cgaatccgag ctcagtaccc agagatcctc tgaggcatct gcagcgtctt ctgctcaaaa 60  
 gaccccgag aaatcttact actcatagac cggaagcgg tgactaatga ctcttatgca 120  
 gctttcacat aaagcatata tgatgggcag atcaccaaga tgtctcctc tcttgaca 178

<210> 12869  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12869

tgaggcctgg tgggtgtcgt ggcgnggaa gtaggcttat ttctcactcg ncctcctctt 60

cctctctctc cgccgatctc cctctctctc gccctcatgc ctctttctct ctcaagggtca 120  
gatctcggtt tgattatttg aatctcggtt cctatgatta tcctggttga tggatacgct 180  
attacttatt attattatca ttattatagg aatggactgt gagtggagtg ttgagagttt 240  
gaaacttgca atgtcctgat tctaggtggt ggcactcggg tatgtgttct tcgctgcaga 300  
tatggacaga aagtcacaac gtgtgggctc tatgtgggct cgggagagtt ctagattgcc 360  
catcaaggac ccacacacat tcctgcccgt ttgcctttca actatgggtat catttatacg 420  
ggacgggaga gatctcagct acat 444

<210> 12870  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12870

agctntagta tggcctccgt gatagaagcc atttgatctt ttaaggccga taggtcggcc 60  
ttcatctggt cttgcactcc ctcttcgtta tccatccttc tggatcgagt gttatagggg 120  
tgcctttgtg cctttttagt tatggcgagt tccctgaaga aacaaacagt ggtgagtatg 180  
ccacaaaaac atgaatatgc taatgaatga tcagagcact tggatccacc tcaaggcctt 240  
ttttagataa catgattagt ttcagaactt ctttttataa aaaggaacaa agctnttatc 300  
tagccaagat cgtacaaaag gtgttacaac agaacctaac ggtttctaata tatatgggccc 360  
atcaaatacta tctgtgttgg cagtaattaa ttagctcgtg aatttccttt ggggctgaac 420  
acac 424

<210> 12871  
<211> 475  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12871

tgcttgtgga gcttctatga aggtcggatc tttgagcttc tatgaggtcc tttaatgggtg 60  
attntccacc atgaagatgc agcgggaagac aaaggagaag aggtaagagg cggtgccatc 120  
cactagggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180

gcttggagag gatgcttcaa tggaggaaaa gaaagagga gagaaagaga gaggggggag 240  
cacgaaattg aaggaagaaa aaggagaga agttgaactt tgagttgtgt ctcacaagac 300  
tctcattcat canagttaca acaagtgtta cacatgcttc tatttataga ctangtagct 360  
tccttgagaa gctntcttaa gaaaacttcc tttagaaact tctttgagaa aacttccttg 420  
agaagctaga gattagttac acacaccct ctcataacta ggctcacctc ctga 475

<210> 12872  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12872

agcttctata taagctgaac cattntatca ataaacacaa gttgagttnt attcagaaaa 60  
ttagagttta tctcttttat cttagtgaaga gtgattctcc taaattcttg agtgattcaa 120  
gaacaccctg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180  
agtgattctt tccttccttt catcttcacc cttgttcttt caaaccacaa ttccagaaaa 240  
ttcacctctg cccagaatta tctcgtggcc ataactccca ttttacgcac tcaaattaag 300  
tgattcttga gcctaaattg aatttcacaa ccagaccttt caccgcgttt tggaatcacc 360  
tcatttgag cctgtagct tcagttattg ccaattctat atttctgtcc agccaccact 420  
t 421

<210> 12873  
<211> 471  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12873

ntcactcgaa tgtccgattc atgcgcata caattcgaga cttctcgaaa ttgaacaacg 60  
gaagctcttg atatattcaa atggtcataa cttttcactt gagtgttcga ttcaggcaca 120  
tcacatttcc agacgctcga tattgaacaa cgaaagctct cgtatattca tatggtcata 180  
acttttcact cggtgtgctg attcaggcgc atcgcatctt gagacgctca aatttgaaca 240  
acagaagctc tcgagaaatt caaatggctc taacttttca ctcggatgtg cgatttaggc 300

gcatcacatt tegtgatgct tgaaattgaa caacggaagc tctcgagaaa ttcaaattggt 360  
cataacgttt aactcggatg tctgactcan gcgcatacaca tttcaagatg ctcaaaattg 420  
aacaacggaa gctctcgaaa aattcanatg gtcataactn ttcacttgag t 471

<210> 12874  
<211> 426  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12874

agcttgctca gtcaaaacac aatccttggtg aagttgatgc acaagagaaa ttgacaaatt 60  
gagaaagaga cacatgaacc tggttaagctg aagttgatgc accaaacaca aaaccaggaa 120  
gtacgaagat catatctaata ccaatgtatc ctaattacac gatactagga atgaaatctt 180  
tacaataaca tcaaatgaca tgcatactac ataagtccat gcaaattgaa tacccttttt 240  
tttctaagag taaaaaaatt gaagttacta cagtatatat aaaacatcag aaaattgcaa 300  
atgaattaat gatcctctaa tgtatccaac atacaaagtt gctgccataa ttgttctaata 360  
tctttgatga aaccacagga gaaatgtact tgtacataat gtaaatcana tntagcaact 420  
gcttta 426

<210> 12875  
<211> 467  
<212> DNA  
<213> Glycine max  
  
<400> 12875

taatgttaac aatggtgggc gtgcataaac gtctttgtta atcacaattt ctaccacgat 60  
gattccaaat acaccgatgt agataaccta cgttgtatcc tactaagacg gtccgcaaaa 120  
taaacgttgt tgtatcagtc acatgccatg cacatgactt ttaaaagtgt caaatattta 180  
cgacaatgcc accggttacc ctactacgac gggtttatta cgaccaatgt aaaatgcgcg 240  
tcgtaaaagg cttttttttt agtagtggca agttcgggta ggctctcaag tgggttgacaa 300  
gtctcgttta ggtagtcttt ttggccttgg ttaacaagaa aatcgagtgt taggtacaaa 360  
aattggaaag ctccactaca cataatagtg gtattattta tttcaatatt ggtttctgca 420

ttcatggtta gtttgcttat tttagccgtg tggctctctc catttat

467

<210> 12876  
<211> 415  
<212> DNA  
<213> Glycine max

<400> 12876

agcttcaccg gatgacgctt atcgaacatt tcctaaccga cgtcatgcag atttcgttca 60  
gggattgaat tgagaactcg ttaggcgaca tctgtcgtga agtagcgacc gatatttttc 120  
agccgacatt gcacaattct ttttagaaaa gctcgtggt cgataatggt ctttttacgg 180  
cagagtaagt tttcttggtt tgggtgttgc taaaaaagtt acaatgtact tcggctaggt 240  
tttctgtcgc agttcaaccg acattctgtt tcggtcagga aaacattagc ccacctctgc 300  
aataaaaaata ttgctatcc gtcttcatgc atatttcatt caacgattga atagataact 360  
caatagccga caacggtcgt gaaatagtcc cgactgatat ctttcagccc gcatt 415

<210> 12877  
<211> 460  
<212> DNA  
<213> Glycine max

<400> 12877

tcacagatg acgccgatcg aacctttcct aaccgacatt atgcaaattt cgttctcgga 60  
ttgaattgaa aactcattag ccgacatcgg tcgtgaagta gccccgactg atatttttca 120  
gccgacattg agaataattt tttaaaaaaa ctctcactgg cagataatgt tgatttttac 180  
ggcagaagaa gttttcttgt tttgggtgtt cataaaaaat ttacaatgta tctcggctag 240  
gtttttttct gcgagctgaa ccgacctttt gtttcggccg aaactggcat gttccaatta 300  
attcggccag gaaaacatta gcccacctcg gcaaaaaaat atttgccaac cgacttcatg 360  
catatttcat tcagggattg aatagaaaac tcaatagccg aaaacggtcg tcaaatagcc 420  
ccgactgata tttttcagcc gacattgcgc aatatttatt 460

<210> 12878  
<211> 241  
<212> DNA  
<213> Glycine max



<400> 12878

actaggaaaa gacagtaagt ctgtcgtgcg tggaaactga taaaggctaa agagacttca 60  
gtttaatact cacaccctac attcttaacg atgacaatta ttcacgtgtg attaattctt 120  
aaaatcacag actaatccta tcatggatct atgagagaat ctacacaaaa atatatgcct 180  
tacattctta atccatagtc aaaaatctac attactatgt tagctactta taattaacaa 240  
a 241

<210> 12879

<211> 205

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12879

ctcctatcac acatactgcg tgagaacggc tcttcctaga gggtaattat gtgtcttttt 60  
gttccttggg acgatgcgtc gagggagcct atgatgtagc agctgaagca cacgattgtc 120  
tcacatatag agtgtacgaa tagcaccagc ctttgttntt gtggcggatt gagtgatggg 180  
actctcgagt accattgtat tataa 205

<210> 12880

<211> 374

<212> DNA

<213> Glycine max

<400> 12880

tagcttagtt tcataggatc atagtgcatt ctaactgtgt gtacttcggt aactccagtc 60  
tccactcgga ctttcagaat agcagagttt cagtatgata aataactaga aagatccaca 120  
aatcaatatt gaagggtcat agttattaca accaaagtgg ggaaaattca gattcatcat 180  
agatagatta gtaggctaatt tttgcatatc tgacctgctg atgagactgg aacatgataa 240  
tggtgtagaa ctccagttgc tggaagatac cttttttgaa cattatcagc atagattcga 300  
gcttcataag catgacctgc catcacatac agagttataa tatactgaaa cttcaaggcc 360  
tctaatagat ggat 374

<210> 12881

<211> 409

<212> DNA  
<213> Glycine max

<400> 12881

tagattgcat gctctggagc gcctcattat ataaggctcc atttcttcaa aaccatattgc 60  
atttttgcgc cttcatccct caaaaaagat aaagtgtcga gaacaaagaa tttcttgga 120  
tttggttaat gctctagtca ataaatgtgg caagcccaaa cattcccaaa gttgcccaaa 180  
ccgtagctgg ttttaggaatt tgcaatctta gtccgaaaag gaatgaaata cataaataaa 240  
tcttgcaatg aatgcataca tgcattgttg tgtaaagtct atatttcttg actagtctgt 300  
tcagaattgc tagctcgaac gttttaactc taggtctcgc taactggtgt gtattttaat 360  
tcttaagata ttggttatag atataaaaata aataactatt tattaaaat 409

<210> 12882  
<211> 405  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12882

agcttggatt tccttttagt agggaatcta tccttcttaa gatggagcca aaccagttca 60  
ccctcattaa gaactagctc ttttcttctt ctattgcctt tagttgaata cacctttgtt 120  
tggttctcta tttggttctt aacctctca tgcattctct ttacaaattc tgacctagat 180  
tccccctctt tatgtataaa agaagtgtcc agtgggaggg gaatgaggtc taacggtgtt 240  
aggggattga acccatagac aacctcaaaa ggggactgct tgggtggttct atgaaccccc 300  
ctgttgtagg caaattctac atgaggaaga tactcatccc aagacttatg gttgcctttc 360  
agaagagccc ttannagggt ggataaagac ctattcacta cctct 405

<210> 12883  
<211> 368  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12883

tgcacagntt ttattaggtta ttaattgttc tgcattctta acaatcgtgg ttntaaattg 60  
ctgttgctgt tgcgacctt gacattgcgt gaaaatgtgt ttgtcatgat ttggttgag 120

agaatcgtaa aatctttatg ttgcggtcgc aattgtggtt atatatggat catgatttaa 180  
aaccatacta acaattttgc gctttgtgtt tatcaatcga ttaattgatg attgaatgtg 240  
aaaattaata gaagtttttg gcaatgtang gcaatgagag gctccaacaa ctcaagaagg 300  
ggcttatcaa accaatacga tgggtccatgc aaggcgacaa accccattga caaatgttgg 360  
agatgtga 368

<210> 12884  
<211> 365  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12884

agcttagttg gcgggcaata taaggaatcc catttccagt ccagaatatg aagagactca 60  
atgatgggat gggtcttagt gctagacgga ggaaggacta caaattgagt ggggtggcgg 120  
ccgtgatgga gtttcaatag tgaaatatga aacgtgggat gaatcttaga agaagatggt 180  
aactggagtt tgtacaggac agggcccacg cgttcgagta tttggaatgg accgtanaat 240  
catttggcca acttgggtgta agctggcgca natgatgttt ggcgatatgg tctaagacat 300  
acatacacc agttgcctac tgtgaattca agactacgac aatgagtggg tgcacagttt 360  
tatgt 365

<210> 12885  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12885

ctttcaaagtg ggtaaaaggc tcacgtttac tttcttctac attatattca aacttgtcca 60  
aataaataat aaagtcatct cgactcaaag aaagtcatat aagtctcata caattaatat 120  
aaaacctata tctaatgtc acatcctatc agagcgtggg gttcccggtg cctctagcat 180  
gaggttcttc atagtcatcc acctattcat ctgctcccc gaacacaagt tcaagatcat 240  
cacaggatcc aaacacaaca acacacaggg agtgagttat cacattccta actaatagag 300  
aaacaagaca attaaatata catattatat aaatgagata ccacttgctt aaacatagct 360

cacgtaactt caccacttcg tcattcanaa ttcacttttc aattatcaat cacattacac 420  
aagaatccca cacttcgatc aagatataat aacacatcaa tt 462

<210> 12886  
<211> 402  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12886

agcttcatac gacacgtgac cccccaccca tggccaaaag tagatcacta tattacttct 60  
tcttttaggca taaagatggg tgtaaccaat catacatata gagggtgtc attntttcgt 120  
tttacatacc aaccaagact aggacctgac tcttgccatc tctcanacca attcgtcttt 180  
tanagatttg cactanacaa catatagttt ctttatagcc ctatactcaa gaccatagta 240  
aactagacag atttccattt aacattccct gctanggagt gcaaaaaccg gttcataaaa 300  
aaaataatcg aactgttnta acanatttga ttttatatct aaatagtcaa actatnttag 360  
aaaattgttc caaactagat tgatttaaaa aattgattct ga 402

<210> 12887  
<211> 421  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12887

nttagtattc acacacacac agagactcac acacacacac attcaaacac acacacaagc 60  
ctaaaacgca gaagctgtcc aaagctaatt agtagtatgg attgccttaa ggtttgtctt 120  
tggtggtact ccattttttt ttctttcttag gctgaacttg ttctagtacc ccactaatta 180  
gttttttagat aatcattaat aaaactgggt ttgtttatgt tggttagaac attntaaatt 240  
gtgtactagc aagtcatttt caattgtaac attatctaag tccactaaaa aacataactc 300  
gtctggtagc tagagttttg tcaattaaat tgagtaacat ggctcgaatt tcctcgtaca 360  
tgctagaaaa ttcttagcct gcatacataa cacaagtcac tctgtactct agtctataca 420  
t 421

<210> 12888  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12888

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 cctcgcccag tattatgata agccactgag gtgcttcacc tttggggact tccaacaatc 120  
 acccatggta gaagaatttg aagagatcct acgatgtcct ctatggggaa ggagaccata 180  
 cctcttctca gggttctatc ccttatttagc tagaatttct aaagatagtc caaatctcgg 240  
 tgcggggaatc agaccacaga cagcaagttg ataatggtgt ggttggaata ccaagataat 300  
 at 302

<210> 12889  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12889

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 accatactct ttccaaatgt agacggccta gtggatttag caacgatcga cgcttttctt 120  
 gcttatcacc acaataagga aagccccgtc attactgatg caatcctccc taggaaggga 180  
 caagtcacta gagccatgag caaaaggctc caagaggatt gggcaagagc tgctgataaa 240  
 ggccctacgg ttcttatgaa cctcagggtg gatttctgag cccatggggc aaggttgggg 300  
 ccaattatct ttgtacatat tatactagga tgtcattata tgtgatcctt gtatttagga 360  
 gtccataatg taagtagggg accctagaaa tatacgagtt tntagccctt gtattttacg 420  
 gcacttagac tactt 435

<210> 12890  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 12890

tagcttcttt tggacctcga acaagcaact aactcctctt tcagaaccat gctatgtgct 60

cgcgactggt tcctctcttg ccttcgcagc ttgagttcac tattgctacc ccacagagct 120  
ccatgaaatt tattccggcc atactcttcc ttgcgagccc tcttgggtctc ttgttcaagg 180  
gctcttgca tagatgcatt ctcttcccgt aaccggcac actccttacg aatgtgtgta 240  
gcgccaact tgaacttctc cttggcaagt gtcgccttcc ctaactcgct cttgagagct 300  
tggaacttctt cgctctctta cgggtgctctc aaactttctt cgatgacgac ttttaactat 360  
gtgagaccat ctagacctcg atatgaactt t 391

<210> 12891  
<211> 455  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12891

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taatgagatc atttcatatt gtgtgcaaga agaggaaagg ttgaagcaag aaaggactga 120  
aagtgttcat gttgtgagta cctctaaaga caagggcaaa agaaaaagga ctgaggagcc 180  
caagaatgaa gctgctaata tcatgcttgg cgtgaaaaaa ggtatgtttc ttacttttgg 240  
ctgttctgat gtcaatttaa ctttagtacc tagaaacacc tgggtggttag attctagtgt 300  
cactactaac taataacatc agtgtttcaa tgcanggttg cctaagctat cggaagccaa 360  
tcgattctga aagatggatc tatgttgaag atggtaaadc agtgggaagt gaagctatag 420  
ggcactctac attattatta tgtactgcgt tttat 455

<210> 12892  
<211> 349  
<212> DNA  
<213> Glycine max

<400> 12892

agcttgtgtg aatcacatca ctctgcatt ttatctctag catgcattac ttttcttta 60  
cccactctc acgttttggt ttttagggaa aaacaccata actaaacgcg ccacaaggca 120  
tcctatcgc accagatcca ttttagaac gatgggtgat caagaggaga cacaggaaca 180  
gatgacagcc gacatgtcga ctctgaaaga acagatggct tccatgatgg aggccatgtt 240

aggaatgatg cagctcatgg agaaaaacgt ggccaccgct gccgctgtca gttcagctgc 300  
cgaagcagac ccaactctct tggaaccgtg tgccatcctc cctcaacat 349

<210> 12893  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12893

tatgcgcata tttccttacg aacgttcact tgcacaagac tattctatca actaagacaa 60  
atgcacccat atacaatcaa ggtagcttca ttacctagat tatgtacttc caaggtgtat 120  
ttgttattta catcacacac gctccttgg ctgaatttac atacatgcat actcaaagca 180  
ttttggggta ccaaaaactg cacatgcgct catcttggtta tttctaatac ccatacatat 240  
acaaacttca cgatgaatct tgactaccta cacaataagg tgctaccttt catgtttttt 300  
tttcaagtnt ttgctaccta aagccacatg caaattcaag catattttcc tttgctgact 360  
aaaattgtat tcaaattaga aggtatatat ttttttgtaa tatgttctct tcacataaca 420  
tgcaacatat ctatatatat tttttgtgag acat 454

<210> 12894  
<211> 423  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12894

agctntacag cagattntag taatgaccca ctaacctaga attaaaataa cttaatgcca 60  
ttaacctagg gaattaaaaa aaacttaatg gctgagtgtg actgaaattg tggcaaccaa 120  
aagtcacccc caacagccaa caagtcagcc accatttggg ctcccaaaag gctgatgcct 180  
atgttgccaa ttgggccctt attacaactt gaactaaacc taactaaagc ctttttagtt 240  
gattaacca aaacatattt ttggtcagcc aactttacaa ggattggggc attatttaga 300  
cagactaaac actctaaaat tgaacaaaag tgggtgcatt tagtcctcct ccatttgggc 360  
catgatacaa ctcacacact tggacttttc tccttgaaac ttngngcttg attcaaatag 420  
tat 423

<210> 12895  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12895

tcctctgccg tannaaaaaac attgtaagcc aacaagcgtt ttttaaaaaa attgcgcaat 60  
 gtcagctgaa aaatatcagt cgggcctatt tcacgaccgg tgtcagctat tgagttttct 120  
 attcaatccc tgaatgaaat atgcatgaag tcggatagca aatatttttt tgccgaggtg 180  
 ggctaattgtt ttcttgccg aataaatggg aaaatgccag tttcgccga aacaaaacgt 240  
 cggttgagct cgcccaaaaa aacctaggcg acctacattg tacatttttt atgcaacacc 300  
 taaacaagaa aacttcctct gccgtaaaaa aaaaacattg taagccagca agcgttttta 360  
 aaaaaaattg cgcaatgtca gctgaaaaat atcagtcggg cctatttcac gaccgttgtc 420  
 agctatcgag ttttctattc aatccctgaa tgaaatatgc atg 463

<210> 12896  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12896

agctttgatt tcctttgttc cgganacctt tcttttctca tgtgcacca aaccaatct 60  
 ccgggttcga agacaacctt ctttctccct ttgttggtt gtttagcata gcttttattt 120  
 ttctctcaa ttgatcttt gactctctca tgaagcttct tcacatagtc cgcctttgct 180  
 tgaccttctt tatgcttaaa aacagaaaca ttaggcatag gcaaaagatc aagaggagtt 240  
 agtgggttaa aaccataaac aacttcaaaa ggagaacaat tagtggtgct atgaacagct 300  
 ctattgtaag caaattcaac atggggtaaa caagcttccc aagtttttaa gttcttctc 360  
 anaactgtcc taagcaaagt tcccaaagtc ctattaacaa cttccgtttg cccatcg 417

<210> 12897  
 <211> 477  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 12897

ntgagcacat tcaaatagaca ataactnttg actcgggttg cttattgagt cccgttatat 60  
atccagacgc tcgaaattca gaacataagc tattagaaaa atcaaacgat aatcactttt 120  
aactcgggtg tccgatttg tcccgtagta tatcgagacg ctcgaaattg aaaactgaat 180  
ctctaagaaa aatcaaacga caataacttt ttactcggat gtccaattga gtcccgtaat 240  
atatcaagac gctcgtattt gaaaatagaa gctcttagca aattcaaacg acaataactt 300  
tttactcgga tgtccgattg agtcccgtaa tatatcgaga cgctcgtaat tganaaggga 360  
agctctaaga aaaatcaaac gacaatgact tttaactcgg atgtcggata gagccccgca 420  
naatatcgag atgctcgaaa ttganaacag aagctctgag caaattcaaa cgacaat 477

<210> 12898  
<211> 432  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12898

agcttgcttg tgtaatcgaa ctacttgact taagcacgca acacaaagaa taggttgtag 60  
tagaatcaga aggtatggc aggagtattc tttatgaaat atatctcgat atgagtcac 120  
gaactataga gtatcatcat cgctaagaac aagaaatcac aaacaaccat actatctatg 180  
caattaaggc agaacaccat tctacaagca tacctagaat tataagggtc ctataacaag 240  
tatataacgt acatataaga agtaagaatt aaacgggttaa taaggatgta ttaaggaatc 300  
acaaacttca acaactacac acaaaaataaa gggaggttaag tattcatgtg tttacacatg 360  
aagaaagaca cactcatcca aggcataatat atacgggttca naagggtntc acaacactaa 420  
tccacacatc aa 432

<210> 12899  
<211> 480  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12899

tatgagtntg tggatgatgt gaggcttggtg ttgtcttatg tattgcaata cctccaagg 60

agtgagggttc acagaactgc aacaaggatc accgagggtt ttgagggtcaa ttggaaaact 120  
 atgaaggaga agtggatgcg tgaggccgaa gagacgaaca agatttgcaa gagggaatta 180  
 catgtgtgtc caaatgaaag aagtcaagtg agtaatcatc tcacaaaaag gagcaatatt 240  
 tttatgtgct gattcaaaat agctttctac cacaagtcaa gaaagctatg ccaataaggg 300  
 tcattatgag cagcatggac attaccctc ttcaagagtt tcatttaatt acctgggtta 360  
 ttcattttta tgtataaagt atctattgag tttcacgtaa gaagtttcta ctgtttctat 420  
 tttgagttgt aagattactc ctcaataaca agaataacaa gaaagttctg ctatattatg 480

<210> 12900  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12900

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 actcgtattc gagattgatt gctaaaacca gggatttggg gatattctgtt ttggtaatcc 120  
 cgtttactta gtggaagaaa cattttctta aataaattgc acagaataac tatttttagga 180  
 aatcattgga gagcccagca atgatgaata acttcttttg gaaatattcc aattaatgct 240  
 aactatttta tgtttctgaa tgcattnttt cattaatctt taagagacat ccccatgtgc 300  
 attaaacca tagtttgtgc tccatgttgc aaggcctgaa tgaatatgac ggcacgtggg 360  
 gcagaagcag tatgttaaata agcactctca gctagatgat caaagtgac agtgagt 417

<210> 12901  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12901

tcctcctcaa gctgtccaaa atccccaaaa tgtcagtgc atttcattga ggtcggtaaa 60  
 gcagtgctcaa ggacctcaac ccgtagcacc ttctctatct gcaaatgaac ctgcccact 120  
 tgtctctaac ccagaaaaag gtaatgacaa aaatttacct aacaatttct atgcagatga 180  
 atcttccact ggcaattctg atttgcagaa gcagcacatc cctcctcttc cattcctcc 240

**THE**

agcttcgatg	aaaatattga	gtaaaaaata	aactaattag	aacaagtagg	agaaatatga	60
ataaaaaatca	aagaagtatt	atTTTTTaaaa	aattattgat	aaaaagcata	aatagaaagt	120
tattttaattt	aaatgtataa	attaattcaa	acgttcattt	cctaattgggt	gaatagggtac	180
ttctgaaata	tattgnggcc	ggtaatatag	tccactttca	ttacagtcaa	ttgctagctg	240
ttaattaatt	ataatttttc	ttttatcttt	ttactttgat	ttattcaata	atTTTTtattg	300
gttaacaatt	tcaaatgaat	tctTTTaaaaa	aaattgtcat	taatattact	catcttgact	360
cctgagttnt	gataattaca	ttcttactct	tgac			394

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<223>      unsure at all n locations
<400>      12903
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5455

ctg

423

<210> 12904  
<211> 236  
<212> DNA  
<213> Glycine max  
  
<400> 12904

tcaagcttga cttacaattc ataagggaaa aaactctgca acaaataaa atgtaaggga 60  
acagtatttg tcttttaaag cacaaaagaa cgcaaaaaag atttgttcca gaagaacctt 120  
gtcattacgt cttccagcat gatcactccc aacaactaat ggaaagtgct ttgacagaat 180  
tgatcctcta aactgatcaa caactttcaa aacagatggt ttcaagccac tcttag 236

<210> 12905  
<211> 421  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12905

tggatgtccc tgaaaagaaa gagatcgctt tgagagcttt acattcggct tgaagtgtca 60  
aaaagaatta tgcgtccata acacaccatg taccaaagaa ggaaaatggg tgagcaaata 120  
ggataaaaacc tacagcatgt aggacattat gtaagtagaa tgaaaaatta tcattacaaa 180  
ctacttgatt ttgactnta gcttacgcat tctaggatag gaattactaa tgatttttct 240  
gaccagcat tgtttaatca ttaatggctg ccaactctta tgtgtcttga cttctttccc 300  
caaatcagt tgtataaaat taacaacata atataccagg aaaccactgc caccaccaca 360  
gccacagctg tcattttctt cactagacat gactatagcc atgattgcac catcttcaga 420  
g 421

<210> 12906  
<211> 387  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<400> 12906

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tcgtttttttt acttgatgat gatTTTTtaac ttattacact gactgatgat aattgataac 120  
 agctgctgat gttcattgat gcttattatt cttactatgt aatatttatt aagatccaag 180  
 aagcccagat acataatatg atatggttat gatacagaat tacagataga gataccgaca 240  
 ttntaaaaaa ttcaagttag gacaaaacca tgatacatta ccaaaaatgc atagcaatag 300  
 caacttgag aacacagacc agcaccagc gaaggagaga gaaccaaag atgagctaga 360  
 accaccagca acttcagcaa tgcagat 387

<210> 12907  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12907

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 ttgtgtagcg ttntagattt gttattttcc attttataca ccaaaaagta tcatggggac 120  
 tttatctctc taaattaatc aatacaactt gactgaaatt aatttaggtt taatatggtt 180  
 ttttgacata gaagatttta gaaaaggaaa aagaaatctt tcagaaattc ttataagtgc 240  
 agtctaaaaa atgctattca tttgcatcct tagttaacct gtacgtcatt aataaataat 300  
 aaataattat tntaatttaa tcagtcaacg taaagacatt ggatatgcgt tgaaactttt 360  
 ccagggctaa gttaaattatt agttatatat catctaatta gttgaattaa tgtatttcta 420  
 gaacatgctt cacaatctaa gccataaat atttctctta aaact 465

<210> 12908  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<400> 12908

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 tacactctga tacattgagc accaagagat tagtgatgct ccaaaattga aaacataccc 120  
 agcagtgctt ttcctatcat ccttatcacc acaccaatct gaatcactat aaccaaacac 180  
 ttctccttct atattcttct gactgtgagg atataaaatg ccaagatcca atgttccttt 240

cacatacctc agaatgctct gtgctgccaa gaagtgagga gcctttggtt tctccataaa 300  
cctacttatac aacccaacac aataggcaat atc 333

<210> 12909  
<211> 462  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12909

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tgtttacaac tcaataatca tatagccttc agataaactc tgcttaacaa acaacaactg 120  
agggtttgtaa gttgtaaaag ttcattcaaa catttattgc atctgagaac acaagggtggg 180  
tatatataga gaaaatagct ataaccatct gtaattgatt aaattggcac tgtgatcgat 240  
tattacgcga aagtgatcaa tcatatcttc caattaatcg attaaagagt tcttccccaa 300  
tgctagacta tataattgat tattttcaca taataatcga ttacattgtc aattcaattg 360  
attacagtgt ccttctccaa ttatggaaaa cattcaagaa caattgaact gggatagctc 420  
tcttaatcac ttctaggaac actctctaga ctgatgtaat ca 462

<210> 12910  
<211> 416  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12910

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acaaagaaga cctctttggt gatgctaaca attcagtgtc tgtgaaagaa gcatatgaag 120  
ctgctagact taatgcatcc ctggtggccg catgcctcat tgaaaaagag catttcatat 180  
tggttagaaa tccacctggt aaattgtccc attcttgctg tgtaatgttg agttgttttt 240  
gtaattttcc ttggtattta cataagcatg ttcagggggc agcagcttgc tccctatatg 300  
gtattcttct ccacctttca gaatccatca tcangctaag cgtagaatgg aacttgagtg 360  
ggataatgaa tatggtagtg gtagctcana gatcatgaag cttaccatca cttatc 416

<210> 12911

<211> 440  
 <212> DNA  
 <213> Glycine max

<400> 12911

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acctgctttt tgtgacgaag gctttgggtt gaatgtgtt tgcttcgact gcaactgtacc 120
tgtaagtttt ttttttttgt ttggttagaa tggactcggg gttttatgcg tttgggtttt 180
tctttcgggt tgcctaact atacgttttt tttttagaaa ttaggggtcc gtgaaaaatg 240
agagaggggc tgagatcgcg gacccgattg gggacggctt ctggtggtga aggagttgat 300
cacaagaaaa cggttgctgt gaagagtga gctgttgatt tgggtgatga gggtttgagg 360
gtacagaagt caacgattga gaagaagggt gaagttgaat gcggtgtgaa acaagaatgt 420
ggctttgatt tgaatgtgag 440
```

<210> 12912  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12912

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ccctaagaga ataaagggtca ttcctgagtg gcctactcca tcaagtataa gggaaatttg 120
gggtttcaat gatttaacaa acttttacia aagggttggt ccatattttt ctatacttgt 180
agcaccactc attgagttgg tgaggaacta tggtctctca tggaaagatg gtcaagaaag 240
gcgttttcag tccttaccct actctaact acccaacatc actaattcaa tgtntaatt 300
cttttaacag gtgttgagaa aagaatccct gagtttcaag aacctctgga tttgagggtca 360
aatcctttnt tacgcattaa gatcaataga 390
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<210> 12913  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12913

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 ttgccagatt gattgtgaag gaatgcattg accgtatccc ggtgagagtg tgatccttaa 120  
 attttgagag aaacgactat catttagtac tgatttttgc gtgaatctct gaagtatgga 180  
 ctgaatgcat gaaattgagg atgatgaagg ccatgtttga ttgtgatagc catttaacca 240  
 caaatctaac catgtgcttg aatgatttat cgcttacacc tagttgagca gaatgaatta 300  
 ttgattgatt gaaccctgag cttatatagt gttatctctt gctaccttga ctcangttgt 360  
 aggagagcat catccatagg aagtgtgggt canagcaaat ttgtccana tttgcgggag 420  
 taattatc 428

<210> 12914  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<400> 12914  
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 aaattctaag caacatgggt agttaaact ggtaaataca attctagttg catagggaaa 120  
 aaggtttaca agttaagaac aatagggtta atagtactta attgcctata gtatcacata 180  
 aagacccaaa cttaccagtc cgagcaggtc tgaagcttga aatataatttc ctgtaatgaa 240  
 agtataaaaa atgagtaagg tgagtcggaa agcctttaat atatttacta tagaaggata 300  
 ttgaaagggg gcaaacaaac aacataaaaa acataattaa tagcacacca tttagtagag 360  
 ttgcggtgtt cataattctt tatc 384

<210> 12915  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12915

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 attactagtt aaccgactac catgacttac acgtatcct tagtggacat taaggacagt 120  
 taccaactta attattgtcc tcacttataa gacgagaaga ataatgggaa aaggtaagtc 180  
 acattntatt caccatatac aaatacttta ccatcggatt gtccctcat tggaaaaaga 240



ggtcggtaga agaagaaaaa aactatttca cgtacgatat aggaagattc tagtaagaat 300  
aataactaaa ttcaaaatta tgggtcaacc aaagtttaca aatgcctatc cacataaagt 360  
tatatttatt agaaccaa atntnttaac acanaagcat taatgtatat taatttatca 420  
caatttgtga atttattgat aataacatta gaaattntac attatctaga taaaaacat 479

<210> 12916  
<211> 344  
<212> DNA  
<213> Glycine max

<400> 12916  
tcaagcttgt atggagaaga cacctctttg aatggacaag ccagtttctg tgtgtgtgtg 60  
tatgcggaag cttgaatcaa gaatctgtct aagtttaatg cagcatccct aggctgcatt 120  
aaatctcatt acaggagcat cactacatcc aacatatggg aagtcacata gacaatgggt 180  
gggattggag ctttatttgt agaacgccat tgtcttgaca atgaaattga tacggctggg 240  
gttcctctca atgaggttca agatatggcg attcaacaac atggacctga tgtgtgggaa 300  
tggactgctg accctacacg tcagtatacc acaacaatg cata 344

<210> 12917  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12917

tgaaggtaaa ctagatgcct tggttaacct gttaacccat ctggccatga ataaaanac 60  
tgcacctgtc gccagactct gtggtttatg ctctctgccc gaccaccaca tagacctttt 120  
cccttctgtg caacaatctg aagtaattga acagcctgaa gcttatgctg caaacatcta 180  
caatagacct cctcaacctc agcagcaaaa tcagccacaa cagaacaatt atgacctctc 240  
cagcaacagg tacaatcccg ggtggaggaa tcatcccaac cttagatggg cgaatccttc 300  
acaacagcaa caacaacaac aacaacctta ttttcaaat gttgctggcc caagcagacc 360  
atacgttcct ccaccaatcc aacaacaaac tgtngaggct cctccacaac cttcccttan 420  
agaacttgtg aggcanatga ctatgcanaa catg 454

<210> 12918  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12918

agcttccttc cttcacatat aatgaaaacc tcaagctttc ctctctcacc aaaagaccaa 60  
 attcaatctc aagcttccct ccaatactgc tttgaaacaa tggatcagaa gattcaaagt 120  
 atattgcatt tggatcttat gggtagaacc catacagtat gccatacaag tagagaatag 180  
 tacgaactat atatgggtgc aattgtttca tagcagtatg tgtgagaagc ttagatgtaa 240  
 tttgggtcttt tgggaaaaga ggaaagctag agatnttctt tttatgtgaa agagggaagc 300  
 tcgacatttt gttttttctg gtcgaggagg gaattatata catgagggtan ataattgaaa 360  
 attccatact taaagacttt ccaaactgat aattattatt ttttatatat ttaca 415

<210> 12919  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12919

ttaccacaaa aaaatctatt gatatcaatt tatcaacggt tgtctctttg aagaaatagc 60  
 tnttgcaaga atttaattat taaaaaactg catatggaga aggatacagt gccctttaan 120  
 agatgatata agataataaa anaatcttta aattgcaatt tatcttttaa tatatattaa 180  
 cattattaat taaggttatt gaattcaaga atttaagtaa agttgtaaaa gttttgtaaa 240  
 tttgatttgt aagagtttac tttgaaaaag atgatggaat tta 283

<210> 12920  
 <211> 226  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12920

agcttcnctc tttcacattt attgaaaacc tcaagctttc ctctgtcacc aaaagaccac 60  
 gttcaatctc aagcttccct gcaatactgc tgtgatacaa tggagcagaa gattcaaagt 120

gtattgcatt tggatcttat gggtagaacc catgcagcat gccctacacg gagagaacag 180  
gtggaactat atttggtgtc aattggttca taacagtatg tgtgag 226

<210> 12921  
<211> 617  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12921

acacacccgc cncgcncct catacactag tcgtatgctc tctgtcgcct anatactata 60  
tcaaattctca nccaccgcac gaccgttgaa cccctgatga acccatctga aatccgacag 120  
ccaataagca cacgatcgga aatgaccact tgactcgga ttcgcatgaa cctctttata 180  
ctgcacagac attttacntt accacactcc atagatcaca tgcgatattc gagtatatcc 240  
aacgccagtg ctctcatttg acagaagcta gtcctatagc aaggaactat aatcaagttg 300  
atcaaactcg ccttatcgga aaatcgttac tacggtcact tntacaaaga acgaaatccg 360  
cgataatata acgacgatct tctaaagatg gcactctagt catttatata tagcattaaa 420  
cattaattaa ctgaggcggt atctgaagct cgagattatc aagtcaagga tgtcagaaca 480  
tcttcgcaaa tacttggtat agcaagagtc tactctcgac acaatgatga tgggcaatat 540  
acacaatata tgtagagggt gtggaggccg atccgtgtat tcggaatcaa catcaaactt 600  
caaaatacag tctgccn 617

<210> 12922  
<211> 200  
<212> DNA  
<213> Glycine max

<400> 12922

agcttatgtg tgataagatg tgactcttca cattagaatc cgaagttcac acgtcaaaat 60  
gcactggtaa tcgataacca taacattgta atcgattaca gctctttgaa attaattgga 120  
acgttgtaaa ttcaacttgc aaactttttc taatccatta tagtactggt aatccattac 180  
aacaatcggg taattgatta 200

<210> 12923

<211> 402  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12923  
  
 atgtgacana acgtggaaga gccagtcttc ctacttttgt ntgttgatca cagagtggta 60  
 cctggagata tgtcgcgagg gtcangagaa ccttgggacg tcatgtaggg tgctgttgcc 120  
 caaaaccaag cttggataat cccgacccaa cccgagctag tcagtctgtg agaacttgtg 180  
 acgtacctaa gcaggcgagc tcctgtcagt caaccaataa aagaacaaag tccactaagc 240  
 aaggaggctt gtgtggcggc tgaccagcta tatatcttgg gtgttatctg aaaattaccc 300  
 tctggtaatc gattaccatt catgggtaat cgattacagg gtttatatat ggagacagga 360  
 tgttaagtag cttctggaat cgattaccat ttgtgtgtaa tc 402

<210> 12924  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
  
 <400> 12924  
  
 ctgcaagctt gatgtgtgtc gagaataaat cacatgtttg tcatcatcaa acagggggag 60  
 aatgtgaatg tatgtataca tgattttgat gatgtcaaag aagaatctaa caaggctgct 120  
 tcaaatgata agcatttgc tcaagaatta ttcaagattg cttcaacaaa caaagccttg 180  
 cctttaaaca aagtgccttc aagacatgca aggctctggt aatcgattac catgaagtgt 240  
 tatcgattac cagaagacag gggtgagaaa tagctattga caaatgtttt gaacttgaat 300  
 cttcaacatg taatcgatta ccatatgttt gtaatcgatt accaccaacg aaactttgga 360  
 aattcaaatt cacaagtcac aacccttcaa attattactg tgtaattgat tacacaaaca 420  
 ttgt 424

<210> 12925  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12925

ggggtgatgt tgcgcgtact gatgggtacc atgaggtgtn tgctggngtt tgacccacgc 60  
 ggggtgttgaa gagacggcat gggcatctcc ttccttcctt tntgcccctg ttgcccgcgat 120  
 tcttttggcg ttcacgtttg tggaggaaac gtaatcaaac tttcctcttt ttaatccaac 180  
 ctcgattctt tccccggcaa acaccagatc cgcaaagctg gacggcatgt aaccactag 240  
 cttctcatag tagaactctg gcagagtgtc taccatcatg gtgatcatct ctctctcaac 300  
 catgggagga gctacttgtg ccgccaaatc cctocatgcg tgcgcatatt ctntataggt 360  
 atcacctct ntcttaaaca tattctgcag ttgagtac 398

<210> 12926  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 12926

ttataattct aacctttgtt gcttacccta gaactaataa ccaacctaatt attaggcggt 60  
 ttttctcttc tcattttaaac tegtacatca taacttcctt taatcaacgt gtgtgttttt 120  
 ctaccattaa gtgacttatt atacgattaa tatatcactt cagaatggca tatacacgcg 180  
 atatcttgtg attgtacaga cctctatgt acttgtctat ctaaggatgat cgatatacat 240  
 cttggctcat atccctgtgg ctttgtctcg atcatctgcc aggacctcta cattatttta 300  
 tgcagctact tatgcatcca ctctctatgt ctagaatagg tagctatggn tagacctaac 360  
 acacctccac ttttagtttc aaggagcatg gagctatatt gtgcacatcc atttcattgt 420  
 cggn 424

<210> 12927  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <400> 12927

tgagctggcc gctgagcgag gcaacgcgct aagcctgtct tgtgcgctaa tcgagatgtc 60  
 ccattcttca actctttctt caaagcttta ttttcaagtt attgtatcaa tcttctcca 120  
 gagcactagt atatctcatt cttttgaata ctactggta agaattaaaa tgatattaac 180  
 atcctcatta ttccattaaa gacaatagta aagtacagga cttgtaatca ttcttagtca 240



<210> 12930  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12930

ttcttcatgt tagagtcaat gatcaaattg agaggaanaa taatagctat gctaaacaag 60  
 ccaacaaagg gagaaagaag gttgtcttcg aaccgggaga ttgggtttgg gtgcacatga 120  
 taaaagaaag gtttccggaa caaaggaaat catagcttca accaagggga gatggaccat 180  
 ttcaagtgct tgaaagaatc aatgacaatg cttacaaagt tgagctgccc ggtgagtata 240  
 atgttagttc caccttcaat gtctctgatt tatctctctt tgatgcagat ggagaatcca 300  
 gattgaggac anaccttct caagaggagg agaatgatga ngacatga 348

<210> 12931  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12931

tactcagctt gaaaaatcaa tgggtctaact ntcacacgga tctccaattc atacgcatca 60  
 catattgaga cgcttgaaat tgaacagcgg aagctcttga gaaatagtaa tggtcataac 120  
 ttctaactcg gatgtccgat tcangcgact cacatataga gacgcacgag aatttaattg 180  
 tcataactgt tcacactaaa gtcctattca ggcttataat atatcgagat actcgaaatt 240  
 aaacatctga agctcttacg aaattcaatc ggcataattt 280

<210> 12932  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12932

agcttataag atcaaaattg tcttaatcat ttccaaatat gcatgtgaat tatgacgcat 60  
 ncacaagaat caagccaagg ctattgtgca agcaatcaat ggggccaaac acaccaaattg 120  
 attataatga tggatggctc aaattctcac aaagggtaaa tcatcacttt caaattgagc 180

tttcataact atcatgacat gtagagaaga atcaaggatt tcaagtcaca caatgtcaag 240  
aactcttatt ttcaaaacat ttacgcattt cttgaacata tcctataatt caaagaataa 300  
catgcaaagt cgtacgtgca cacaaaattg acccaaaata ttaaactgaa aatccgacga 360  
aactaacaac attaacaaat taacacaact aacagattaa c 401

<210> 12933  
<211> 295  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<400> 12933

aatgctactc ttaagacaaa natggcgtag aacctccttc aataaacaca aacatcaatg 60  
ttaatttaga gcaaacttat gcacatattt ccttacgaac attcactcgc acaagatatt 120  
cttctaacta agaaaaatgc acccatgcac aatcaaagca ccttcgttac ctagattatt 180  
tgtatgtact tccaaggtgg actacctaca tcacatgcat tttcttggct aaatntacat 240  
acatgcatac tcaaagcatc ttggctacca aaattgcaca cgtcacattc tggta 295

<210> 12934  
<211> 382  
<212> DNA  
<213> Glycine max  
<400> 12934

ttcttggaaat ggatgcttca atggaggaaa aaaaagagag agagaaagag agaggggggga 60  
agcatgaaat tgaaggaaga aaaagggaga gaagttgaat tgtgagttgt gtctcacaag 120  
actctcattc atcaaagtta caacaagtgt tacacatgct tctatttata gactaagtag 180  
cttccttgag aagctttctt gagaaaactt ccttgagaaa cttctttgag aaaacttcct 240  
tgagaagcta gagcttatct acacacaccc ctctcataac taagctcacc tccttgagaa 300  
gcttccttga gaaaattcct aaagaagcta gagcttatct acacacacct ctctaatagc 360  
taagctcacc ttcttgagat ga 382

<210> 12935  
<211> 361  
<212> DNA  
<213> Glycine max



[illegible]

<210>	12936
<211>	399
<212>	DNA
<213>	Glycine max

tagcttcttg	tattgaacat	tgaaagaaat	tccattccta	aaggacactg	ttctatctac	60
taaatgattc	ttgcccttgc	ttcttacgcg	aagcataagt	tatgcttggt	ttttccttgg	120
cctttttcta	atttaagagt	tatttatgga	cTTTTAAAAA	agaagtagat	ccgtgtggtc	180
cttgacactt	ttggccttct	tgggggggagt	agccAAAAAA	aggtgccacc	cgatgctatt	240
gaactaacag	gccttattct	acatccAAAA	ttgatacatn	tttgtacctt	ctcatccttt	300
tctttctcat	catcattttc	cacatacctc	aaccaatcat	gaagggtttt	ttttaagttt	360
tctcttctca	caggcttcct	tgatgaagtt	cctactct			399

<210>	12937
<211>	382
<212>	DNA
<213>	Glycine max

tatntattat cataccttat ataattatca tactctcgaa tagtagacgt ttacgaccac 60  
atgttaaggt acattatgaa tctgcgaata ttattatttc ataaccgaaa gccagtnctt 120

gtgcaacggt aaagttgtgt cttggtgaat tggttgtcat gggttcgaat ccggagacag 180  
 cctctttgca tatgcaagga tnaagctgcg tacaatatcc cttctccata tctttgccta 240  
 acgaagagcc tcttggcaat ggggtacgac agntttttat tattccataa caatattgca 300  
 gccacttaat ttgatcacat atttatcttt atgagaacaa ctaattaagt gataactctt 360  
 aacattgtag ttattaatta tg 382

<210> 12938  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12938

agctntgac ttttcaaagg agatgaagaa nacttctctg aggggaagtt caatgttgct 60  
 gatagtgttg tttttcagat tacacagaac aagttggtac ttagaattat tccccagcaa 120  
 caggacatca ttgtttgcag acatgcacaa nggatgagga aagtaactgc gacagaattc 180  
 aaaatgcttg taactaactt taatcaatag agtccaagac ttttgaactc caaacttctt 240  
 catttgccat ataacaagat gtgttccgtc ttcattgtga gaaaaacaga agcaaccctt 300  
 caaaacccta acttctggca accaaaccga 330

<210> 12939  
 <211> 533  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12939

ctcacctac atacntactc actagagtat gtctaccgtt tggatacgta ttatattctc 60  
 tctctctcac cncctcagc actaaccgtt ganaccatta atgaccctc cntattgagg 120  
 cccttctatt agtgacctat agataactcaa gcttatangg ttgagctcgg ctttgagtga 180  
 atatgccaaag tatgagtttt gctcattacc tggcgtaagc ctttttctct tattacaggc 240  
 tcggctcggc ttacataaaa gtctgacttg gcctaagagc ttatttaaca agtttgctta 300  
 aagacgtctt tgaccaatta attggttaat acctagtga atactaacta caaaaaactt 360  
 aataaatttt ggataagtaa tgtacacatc caaaaataat ttgttatata aaatcatata 420

tgaataaagg ttgttaaaca caaacgatta tcaaagaata tgagaaataa tataacttaa 480  
aatatatgga ttagagatga ttataactaat atagccaata aaaatattaa atn 533

<210> 12940  
<211> 330  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12940

agcttgaaga tctagcctct atagaagctt ctcaagcaag cttccatcaa cttatgaaaa 60  
aagatagact ttgcatcccc ttctctcaac catttgagcc tagattgctg ccacaataaa 120  
ctacacttca tacctagagg ttagggattt agggggttga ggtggtggat gttttggttc 180  
aaggtgtggt ggtgaattgg aggatttgaa tttggttggg attgagttga ttggttatgt 240  
tctaggttct cttttatcta cggngggatg ctgggtgttg tgattntgag agattggttt 300  
tttaattctga tatgatttcc cccctcaat 330

<210> 12941  
<211> 342  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12941

gaatcacata ttctaacaca tagagagtgt gtttacaata aggtatagtt agataacctt 60  
ggtaagaaaa ggattgactc tataagtaca atgtttctct cttattttct tatgctttgg 120  
acttaagtat tggtagtgtt ctatgttaat tngttagttt tcagaaaaga cttgatgccc 180  
cttttatgct tacagtatga gcgaatcaat gtggggctct gattaatcag aatatgactg 240  
ttgacaatct ttgattcttt gattcctact aatgatagat gatgcatgtc tggattgatc 300  
cagaatcaat actttgtaaa tttgtccttc atatatcaat tc 342

<210> 12942  
<211> 319  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12942



cgatatacaa cgggatacaa tcggacagcc gagtaaaagt tattgtcaat ttattttgct 360  
 caaagcttct gttctgaata tcgagcgtct cgatatacta cgagacacaa tcggaca 417

<210> 12945  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12945

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 tctgagcaaa atctaacgac aataactttt tactcggatg tccgattgtg tcctgtagta 120  
 tatcaagact ctcgaaattc agaactgaag ctctgagcaa aatcaaata caaaaaaatt 180  
 ttactcggat gttcgaatga atcccgatgat atatggagac gctctgattt gaaaactgaa 240  
 gctctgagca atatcaaacg acaataactn tntactcgga tgtccgattg tgtcccatag 300  
 tatatcgaga ctctcgaaat tcagaacaga agctctgagc aaaatc 346

<210> 12946  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 12946

agcttgccgt ctcagctcgt tcaggcgagc aagggttgctt cctccagaag caacagcctt 60  
 ctggaggaat cttctggagg gcccaagtgg gcctgggttc tatttacacc ccttttttac 120  
 taaatgcacc ccccttctat ttttttgtaa ttcttttccg taacgttacg aaactttacg 180  
 aatttcataa cgatacttat tttccttccg caaggttacg aatccttacg gattatgtat 240  
 ttactctttt ttagctttcg aagaagttac ggaaactcac ggattgcgca aaaacacatc 300  
 ttttcggttt ccgccacatt acagaatttc acggatcgtg caagcctgct tccttttaat 360  
 tactgagacg tctcgggact tcttttattg catgtcatca agtaataatc cccg 414

<210> 12947  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

**THE**  
**NEW**  
**YORK**  
**PUBLIC**  
**LIBRARY**  
**ASTEN LENOX TILDEN FOUNDATION**

<210>	12948
<211>	413
<212>	DNA
<213>	Glycine max

atcttcaatt	tctctagac	actcatcata	cgcagggttt	gtctcacata	ctttccaaat	60
tcttcccact	tcattcacct	tctctagggt	tgcataaggg	ggaagcacia	ttcggcatat	120
ccaccgattc	tgtttataag	tttccccttc	catctccttt	aataaagttt	cagccttatt	180
ttgaagccca	taagagatgt	aaagcctaatt	caaaacaacc	tgcgtagtga	tgtctggttc	240
aatgcctcga	gccttcatcc	tatcaacaat	ttgatccatt	ccatcaataa	cttttggact	300
ggccttctgt	gtctattaag	atcgaataag	tatgagaaga	acggttgata	ttctcatttt	360
ccatatcaat	aacacatcag	ctatttcctt	cctgtcattc	cttctataca	gaa	413

<210>	12949
<211>	546
<212>	DNA
<213>	Glycine max

tagaactgca	ttntagantc	actagnkata	ttatcattat	gatctagaat	tgtnnttggt	60
cttnctnnct	ttnnnnnnna	anagaagggc	gnattgaaac	cattgttgag	cctantngta	120
anangcgaca	ctatgnnaaa	ctcaagctat	acanagaggg	atganagann	ttatantatg	180
aattattttg	gatatatattg	agcattttga	cataatgctg	agactgatgt	gacagcacct	240

cttctggcac atttactata ttatttggat aatagttaaa cataactcaac aagtttttta 300  
catgagaagc ttgttatgat tatgagggag attaacgtga cacatattgg taaaagtcaa 360  
tattatcttc tgtagagcta ggattgagct catgcaaata tgaatctata aactaaatt 420  
aagaatcatg cttaaaattg ttgatattag aaagcattga aggggtagca tgacttctaa 480  
gattgtccct tgcacatata gtgcatagca tatatgcaca taaatatgat gctaattgat 540  
attttg 546

<210> 12950  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12950

tgcttccatc taaaacctcc tattgtaact gaaaggtgat aacttgccat ggaaggctaa 60  
agcttttggtt gggaatttct gttgatcctt gatgcaaata ttctttacta tctatttaat 120  
gttgttttga tgtgttcact gcttctatct gcacttaatt cttgcatgct tttggctctga 180  
tcatccatctt ggggtgtaaag tttggattct tagcattggg aaatgttttg aatccttcaa 240  
actggataga gcagggctag ataactgtat tgtctggaca cggagtgtan ggactctagc 300  
ttttaatttg gtgtgacctt aatgttagat gagttgagtt ccatcaagtt atggaaagaa 360  
aaataagaga gacaagacaa aggacaacaa gagtggaaga tataagtcaa gatg 414

<210> 12951  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12951

tagcacccca cctgacgtcc ncaatgtctc ctgacctccg cgacatatct ncaggtagca 60  
ctctgtgggc aacaataaaa gcaggaagtt tcaccttca acacttcctc atctcaagct 120  
tgtaggatta tggngtaccc atcacatgtg gtactangtg gcggtcgggc gatgggtgcac 180  
aacaagtttt tcacatccac aaagcgcgca taaaccaccc atccccctgtt gccacctcc 240  
atctgagctc acgtactccc acgtagccca tatcctcgtt tctctcaaca ccgggtcccc 300

atcaatcctc tcaagcttnc acaacatcca agcaaaacaa cattcanaca gcacaatcta 360  
tcacagccaa gaaaaca 377

<210> 12952  
<211> 351  
<212> DNA  
<213> Glycine max  
  
<400> 12952

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caatcacctg tgtttggtgc ttatggggag ttaggcaacg tgtgccgctt aaagaaagtg 180  
ttaatggctt gatgcaatca cctagatctt gggttgagga ttaaggggtg tggccttgct 240  
tttgactgaa gctgagtcaa agagatcata ctgtaattta taacaatact aaccttggca 300  
gcatcttact tgtggatag ttatgatatt gtgaaacaag aagtgatata a 351

<210> 12953  
<211> 378  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12953

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cccttggcaa tgatgcgagc ctttaaataga gccacagacc cattagaatc cattttgata 120  
ctataaacc acttgcgacc aatatccctc ttccctgcan ggagagaaat caaatcccat 180  
gtttcaaatt tttcaagag ctatcatttc ctcttcatt gcttgtctct agccaccatg 240  
actaagggca tctaanagag atttatggat agaaacanaa tctagatagc aacaaaggac 300  
tttgagggtg atgacaaatg agcaatagac acatgtgagg anataggata agtatgtgta 360  
cagggtgtgnt taccttta 378

<210> 12954  
<211> 400  
<212> DNA  
<213> Glycine max



Figure 1. The effect of the concentration of the *Agrobacterium* strain on the transformation efficiency of *Agrobacterium* strain 101. The concentration of the *Agrobacterium* strain 101 was varied from 10<sup>5</sup> to 10<sup>8</sup> cells/ml. The transformation efficiency was determined by the number of transformants per 10<sup>5</sup> cells of the *Agrobacterium* strain 101. The data are the mean  $\pm$  SD of three independent experiments.

<210>	12955
<211>	364
<212>	DNA
<213>	Glycine max

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aatctctaac aaacctccta tagaaacttg ctaagtcatg aaagctcctt acctcactta	180
tattttatgg ggttggccaa tcatgaatgg ctntcacctt ctctagatca acctgcattc	240
cttgcgagct aacaataaat ccaagagaaa tgacatgggt catacaaaac acacatctat	300
gcacgttaac atacaatttc tcacacctaa gtggcttcaa gatacacctc aaatgcacaa	360
catg	364

<210>	12956
<211>	359
<212>	DNA
<213>	Glycine max

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aaaacaagta	gggaccacta	aggggtgcatg	gaatgaattg	aaagattcga	ttttgggaac	120
ttaccgattg	aagaccgaag	aacgacgaag	aacgacgaag	aacgaacgaa	gaacgggtgaa	180

gaacaatgaa gaaccatcac gaaatcactt acagaaacgt cttggaaaca ttacggaaat 240  
gcctcggctt ggattttctt cacgggaaac aattttctct ctaattntga gtgatttctc 300  
aataccagaa gggctgaacc ttttccttct tccctccttc ccctatntat aggagaaaa 359

<210> 12957  
<211> 285  
<212> DNA  
<213> Glycine max

<400> 12957  
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tgagagcaatt gagcagcctg aagcttatgc tgcaaatatt tacaatagac ctctcaacc 120  
tcagcagcaa aatcaaccac agcagagcaa ttatgacctc tccagcaaca gatacaaccc 180  
tgatggagg aatcacccta acctcagatg gtccagccct cagcaacaac aacagcagtc 240  
tgctccttcc tttccaaatg ctgctggccc aaacagacca tacat 285

<210> 12958  
<211> 398  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12958

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tagtttcagg gtatcccaaa cgaacgatag gcctaatcga ctgatgccac aagtaaatac 120  
ttgcgtccat ttttgtctgt ttctatggat caatgcatgg tgaatgtagc tctggcctac 180  
acttgaaatc actccactat tgtaaagtcc cccatctctt agtaccatcg cccaatgatc 240  
tccttcgtga gaatatcctg aagaaaacag aaagatggat aaattagcac aacacagttc 300  
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gtattcgaaa gcacaaggga tgggtgataac atcacaat 398

<210> 12959  
<211> 210  
<212> DNA  
<213> Glycine max

<400> 12959

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acattgctag acctatctac tagaaggggc atatactagg ccataatata gagaacctat 120

tctcatattt acactataaa gtggatccaa ccttgaccca tgggctcata gatctaccct 180

aatgttcattg agaacccttg agccttcttt 210

<210> 12960

<211> 327

<212> DNA

<213> Glycine max

<400> 12960

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ttgcgtcaca cacacgtgcc aaatatgact accttgattg atgtccttac ttcaccagtt 120

tactgtgaca ttcacttacc atatgagtga ttgaatcgta aatcattatt gctatgattc 180

tagagattgt tattataaaa tactcaattc atcatatcgt gatctctgat tcgatgacat 240

tgctaaattc tcttacatta tegtatatata cctttgcctc tctgacttta cctcttaattg 300

cacaaatgga cagaatatat caatattc 327

<210> 12961

<211> 237

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12961

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tgattcttta atattatata aggaacaaga atcctccttc ttttcaccac atattgggct 120

agtttatgag ctatccctag atggctacaa tgtcttaata ctcaataccc aaagggagaa 180

accaggaatt ccttaataga ttgtagaagc aagccttttc tatagcgcgc acacaca 237

<210> 12962

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12962

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 gaaattcgtg cctttcaccc tcctatctac ctcaaaggat agattattcc acatgcatag 180  
 aagacctcca gcagtgtgaa ttgaaggagc actgtcccaa gacacattag catctcccca 240  
 tatattctga caagcaagct tagtgataat ttctttcttt gtttcctgta aacaaactaa 300  
 gtccacctta tgctttaagt tgagctttcg aatagcagcc cacttcaccc nctaccaag 360  
 cctctgcagt tatatgaaag aattatcatt aataccttta tcactntcct tctctgcttc 420  
 cat 423

<210> 12963  
 <211> 237  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12963

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 aanatagaaa tcataatgaa gaagaaagga ggagaagagg gaatgatggt gttcctagac 120  
 caaacggaat tgatgggtatt aaactcaaca ttctttcctt taaaggaaag aatgatccgg 180  
 aggctactt ggagtgggag atgaaaatag agcatgtttt ctcatgcaac aactatg 237

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 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12964

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 atcctctatg gttttctgga gttttaacat gacctccgag atggaagcca tttgatcttt 180  
 taaggccgat agatcggcct tcactctgtt ctgcacgccc tcttcattat ccatttttct 240  
 ggatcgagtg ttataggggt gccttggtgt tttcttagtt atgatgaaat tcctaaagaa 300

ataaacaatg gtgagtatgc caccaaaaaca tgagtatgca aatggatgat cggagcactn 360  
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 gaaca 425

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 <212> DNA  
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<223> unsure at all n locations  
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 cgtctcaacg ggcttgctcg cgcgattga cgaatggcgc angagacgac gttagtctct 180  
 gcgtgctatc aggtttttcg tcttacagat agcaaaaagg tttatacgga taaccactcg 240  
 ggtatctccg cccgtcagcg tgactcaaaa gtcagtatga cagagcttgt tagcgcgga 300  
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<210> 12966  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 atacactcac acgtgcccac agcatttcac ataaacattc ccttttatct ctcttattca 180  
 aaatctctca atcttacatc tgcacgcccac agcattttct taccgcatta tctcagtcaa 240  
 accanagctt caacgatata agtaagttcc ctactacgtt ttttctgcta ttttctgaa 300  
 ctntaggtta gacaacctta aatctagctc taagaattat aggatattaa tattttttaga 360  
 agtagttaga gtttaggact ctgtgtaggt tgtcttgtgt aaaatatgtt gagaac 416

<210> 12967  
 <211> 372  
 <212> DNA

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<213> Glycine max

<223> unsure at all n locations

<400> 12967

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gaatatcaca atgcaactcc ttccctaatt tcagagcagc caaagcagca caagctggca 180  
aaacactagc catgggttagg gaattaggca ccattccctc ttgaattaac cacctaaaag 240  
tggttatagc atcgatatcc agcccatgaa gcacataacc tgagatcata gctgtgcana 300  
ctgcaacatc aaccaaagta ttctgctgaa aatcttgctg gccatctcca catctcctcc 360  
cttgaagtat at 372

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<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12968

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tgaagagcta attgaaaatc aaaattgaaa aacaaataaa aatattttatt atattaaaaa 180  
aacataaatc atttaataaa aaaaacctat atttatcgct cttttcgaaa gagttttacgt 240  
agggatagtt ggacagtcta aataagttaa taataataaa tgatagaata gattcaagtt 300  
gtgaccatga ccgtgagaaa tgtcaagttt gactgctcta gcatttaata aaagtaagat 360  
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<210> 12969

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12969

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gaactcccaa cttagtanag atacccatat gtgcacgctc caatcctaac ccactctcca 120



actagaggaa cacttattat gaaatatatg agtgcacat

400

<210> 12972  
<211> 401  
<212> DNA  
<213> Glycine max

<400> 12972

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ctctcacgta cctttcaagg gtcaaagcta cccctcgatg ttctacgcat gtgcgtgctg 120  
gaataaataa tgatgttggc taaaatttat ttgggcttaa gtctttcaac tttcatcagt 180  
taattcactg atcttggttg ttatactttt aaaacaatga ttttagttct tgcattgtatc 240  
tttttaatat atgaattaga tttatgtgcc ctgtcaatct aaaagacata tttgagtgc 300  
ttcccgttta ccttccttca aggatcaaaa actataatgt ttcttgtaac aacagcacc 360  
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<211> 151  
<212> DNA  
<213> Glycine max

<400> 12973

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tattggtgaa tatatcaatg tatattgggc t 151

<210> 12974  
<211> 412  
<212> DNA  
<213> Glycine max

<400> 12974

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tacctcaaag actaaaatga agtgacaact tgttgaaaat aacaataaaa tatatgaaga 120  
tgtcaatgta atagtaatat gcaccatcca tatccctcaa ccctttatag caaaactaga 180  
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[illegible]

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<210>	12977
<211>	371

<212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
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 aattacttat gtgagttctt gatttattcc ctatatctct ccccttttg catcaacaaa 180  
 aagccaaagt gtgtaacaag gtattgacac acatatacta ttaatcattc acaaggcata 240  
 cattgaagaa tataaaccaa tcatgaagca tgatacatga atagatcaaa tatataacaa 300  
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 <211> 384  
 <212> DNA  
 <213> Glycine max  
  
 <400> 12978  
  
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 ataaatagtt aactgattag aattatcact ctctctctct tgtgtatcac tcttttcttc 180  
 ggggtgtatca ctcttctttt tcatattcct ttgtgggtgcc tcaactatctt ctttctcttg 240  
 gtctctcttt tctctcattc tgatttggtc atcacacact tttctatgtg atagaggctt 300  
 aagagtaaac gacgaagatt tggctattcg tctgtaaggc tcttctttgt tacgggttaa 360  
 caaacgttgc atttgtgtag tcca 384

<210> 12979  
 <211> 181  
 <212> DNA  
 <213> Glycine max  
  
 <400> 12979  
  
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 agacaaaacc gaattgatgg tattatactc aacattcttc catttaaagg aaagaatgat 120

ccggaggcct acttggagtg ggagatgaaa atagagcatg ttttctcatg ctacaactat 180  
g 181

<210> 12980  
<211> 386  
<212> DNA  
<213> Glycine max

<400> 12980

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caagtgtatc acacaattat ggcttttctc taatgaaaca ctcttgctt ttaccactct 180  
aattcccctt gagttcttag gcaattcaag agattatggc cacaacaaag aacaattcac 240  
caatatgtgt aaggttaaggc tagagagaca aggaaaagg taaccaagaa aaaggctaac 300  
aatgttttta ggcacagatg aaggaaataa aattcagaat ttaggaattc aagtaacaat 360  
ccttcatgca accaatatat tacctt 386

<210> 12981  
<211> 368  
<212> DNA  
<213> Glycine max

<400> 12981

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aattcaaag gtcataacat atcacacgga ggtccgattc cggcggatag tatatcgaga 180  
agctcggaat tgcacgacga aagctctcga gaaattcaaa tggtcataac ttttaaaacg 240  
gaagtaagat tcaggtgcat aatatatcca gaaagttgaa attgaaccac ggaagctgtc 300  
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gagacgct 368

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<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
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ttntactcg gatgtcttat tgaatcccat aatatatcga caagctcgaa atagaatctt 180  
gatgctctga gcaaattcaa acgacaataa ctntgtactc ggatgtctga ttgagtcttg 240  
taatatatcc acacgctcca aattgaatac cgaagctctg agcaaattca aacgacaata 300  
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ccagagctct gagcanattc aaacgacaat aactttttac tcggat 406

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<211> 244  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12983

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cttaagaatt gtgaaaaatt ctacagataat ggtttcttta tacatgaagg ctttcttttc 180  
aaagaaaaca aaatgtgtgt gcctaaatgt tctactagaa atgttcttgt ttgtgaagca 240  
catg 244

<210> 12984  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12984

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ttaccttaca gtttacattg ttggttaaaa aaagacaatg acatttatat tatgggttat 180  
ttaaggctta tttaaagtta agcatagggt ttggttatct actgaaataa tgctctactg 240  
aaataatgct ctgttgctag tgacaatatt gtgaagcttg tgctttgaaa attatgtgta 300

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<210> 12985  
<211> 283  
<212> DNA  
<213> Glycine max  
  
<400> 12985

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atcgaggctt atgttgatga catggctgtc aagtcttata gcatgacca acacatcaca 180  
gtcttggaat atgtgttcag agagattcgc aagtataaca tgcgcctcaa cactaataaa 240  
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<210> 12986  
<211> 393  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
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gggagagagg ataacagatg anaagctggg gagaaagatc ctcagatcct tgcctaagag 300  
atttgacatg aaagtcactg caatagagga ggcccaagac atttgcaaca tgagagttga 360  
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<211> 403  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
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 aactatatta tctacacaaa aggtacactt ctctatattt gcatagaggg tgtttttcct 180  
 aaggactgaa agaacttgcc tgagatgtcc taagtgatca tctangctcc tactctacac 240  
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 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12988

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 taataaactc tgtattgctt cctaaanttg gaccactgta tatcattnta tctccaaaaa 180  
 ccttgtaatc tgttaccttt gaccagttaa tatttaaaat taaaataaat ttggtattag 240  
 ttgcaattgc aaccattgct tggctagagg tctgcatttc actcgacctt taattacttg 300  
 gatgtgtttt ctactgctgg ttcttatnt aaattagtgc ttgttgggtg atgtttaaga 360  
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 g 421

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<223> unsure at all n locations  
 <400> 12989

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 tagcttatgc ataagttaaa agtgtttgtg aacatcanag aggaggtcat caatattatg 120  
 gagttattct gtcttttcaa aagcattctt ttgcaatttc tctacctgac ttaatctcct 180

tactccctgn gtttctttnt tctgtatfff ctcctgctt ctctgtccct aatgtccaga 240  
 anattgccat gatagatact tttgttgtgc tcatggaatc acacttattt tacaggtgaa 300  
 aaatccaacc gcaagaattg aacatgaagc tagtacatcc aaaattggag aagaatcaat 360  
 tgtttatttt caacanaggg gaatagacta t 391

<210> 12990  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 12990  
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 ttgatgaatg aaagtattat gagacacact tcataggtcc acttctctcc ctctcttatt 120  
 ccttcaattt agagctcccc cttctctctt tctttgtctg cattaaagca tcctttttaa 180  
 gcttcttatt caaggcatat tcttggtggt gaagctcctt cttccatggc ttattcccta 240  
 gtggatgacg cctcctctca cctcttctgc tttatctacc ggtgcatctc catggtggaa 300  
 aatcaccatt gaaggacctc attgatgctc atagatccag cctccataga agtccacaa 360  
 gcaagcttcc atcaagtggg tatctgagca caggagcgctc aagta 405

<210> 12991  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12991

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 attgtctgaa gctgcttaat cttctgctct cttgccagca aagacaatat gcacttttga 120  
 gctgagcaca attagaaccc ttataatgta gattgattag caacaaaata caagatatgc 180  
 caatgcccc caacatattg tagctaagat aataaaacaa ctaatatcta aaactaaaga 240  
 tagagataaa cattggcact ntctagtta catagtgact ctaaaccatt gggtatgta 300  
 tgagcataca agaaattacc tctcagacgt acataatgtc tccaaacctc aaacactct 359

<210> 12992

<211> 400  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12992  
  
 agcttcatga tgatgaacca agcaatTTtg atgatgtcaa aagcccaagt aattgattca 60  
 agattgattc aagacttcaa aatcaagcat caagaatcca atccaagatt caagagaaga 120  
 aatcaagaag caacaagtca agacttcata taggatatgt attaaaagat ttttttcaaa 180  
 aaccaaatag catagtTTtg tgttacaaaa gaattttctc aaattttcta agttaccaga 240  
 gtgattactc tctggaatc gattaccagt tatcagtaat caattagcag tgaccagttt 300  
 ggTTTTcaaa atgTTTTcaa atgatttata atgttccaaa atgattttca natagtgtaa 360  
 tgcattacac tatattagta atcaattaca agtgaatatg 400

<210> 12993  
 <211> 372  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 12993  
  
 tgcatttata attatatcga actaattaaa gtaatggtn taatcatggt taaataggta 60  
 ttagttaagt aatattattt taattnttta atattatatg caatattaag tgaaaaatat 120  
 gtttgaacct atttctactt ccaactaatg tttaatacta ttatcacttg ttntttataa 180  
 aaaaatatta gagataatat tatttaaaaa atatatttt tgttaccgag tcaccaaagt 240  
 gttggaaatg agtgaatgga agttcttcan aaggacccaa attgtgagtc caaaacaatg 300  
 ttttttttct ttgtntntta ataaaataaa aaagaagaan aaagtctctt tcaacaagct 360  
 gctctgaatt ta 372

<210> 12994  
 <211> 349  
 <212> DNA  
 <213> Glycine max  
  
 <400> 12994  
  
 agcgtcctat ttgcctactc tggatacatt tatgtttaga cgcaccctcc aacgatgagt 60



aactatttcg tcttgaggat aacaacgtgg cgctatacgg tgggtgactt ctgcatcaaa 120  
catgtaggct cttcatacca gagattgatg gaccacatgt tcatatagca catcaaacga 180  
aacatcgagg tctatgtcaa cgacatgggt gtcaagtccc aagcatagtt caacacatgg 240  
cagacctaga agaggctcttc aaagaacttc cgaaatatga catgtgcca tgatgtgcca 300  
tcattgtctc ctatttctta accctttttg tcaccattct aattaccta 349

<210> 12995  
<211> 310  
<212> DNA  
<213> Glycine max

<400> 12995  
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tgggtgatgta agcatactat aggctggttag gattgttagt tagctgttac gtaactaact 120  
acatgtataa aagccatgca cgaacccgtg aaagggatta tggaaataat attgtcattc 180  
tgcgcttaga ctttccttcc ttctctctct cttcacctat ctctcttaga gtattcagtc 240  
tcgatgaaag ctacctctaa cagaaaatct caaacatatt attacgtttc caacattaga 300  
tgttactacc 310

<210> 12996  
<211> 184  
<212> DNA  
<213> Glycine max

<400> 12996  
agcttttcgat ttaatatctt atgaaatagt cgctctgatg aattcgtgga cctcatggtc 60  
cccatatccc cacaacagct ggtacaatct ttctgcccag acccaccgat atttcggcta 120  
taatacacc tgagttgctt cctaaatttg gaccactgta tattcattta tctccaaaaa 180  
cctt 184

<210> 12997  
<211> 591  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 12997

gcacactcac agcactcgtc tttactctct gttgtttatc ctgtgcgaaa gtcagacngc 60  
 aacgnactta tactcgcttc tccctcgtnc nncnacgcaa gccgtgcgcc attgaagccc 120  
 atcgtttgag cgcattatag atactacagc tcgctaaaca cgggaacata ccaaatancc 180  
 cacactatta tggcgagggc ctattccttg atgggttctg aatgtctcat ggagcactat 240  
 ggaccgcgac tctctatcaa catacaacac ctctatagaa tgacgtaata tcctcctaca 300  
 cacaaacagg accactcttc tctaataat tgcgctaaga gcggcggtac tcccttaacg 360  
 actcgagaag agcttgctct gactatgttc ttaagagatc aatctaggct cctgactgta 420  
 cactaaaatt tcatcaaac aaataactac agatctacct atgagaacc ttaagacacg 480  
 atgcataatc ctcacagagg tgcttgagc actcatgaga ccacaaggga tactaagca 540  
 ttcatagacc ctatacgtgg tctgagagcg gcttagcact ggtaccgctc g 591

<210> 12998  
 <211> 386  
 <212> DNA  
 <213> Glycine max

<400> 12998

agcttctaga taaaactaca tgaagctgcc tcggtaaaaa tgctgcgcag cctttgttca 60  
 ccgttggtac ttctcgaaat ttggtttgca acttcacaag acacttgctc atgatctgac 120  
 cgttgggac tttgagaaga tgtctgaagt gttctagaag cctcttaatg aagcttctag 180  
 aggaagcctc ttaatgaagc ttctagagaa aactacatgg agttgcctcg gtaaaaatac 240  
 tgcccagcct tcgttcaccg ttggatcttc tctacatttg gtttgcaact tcacaagaca 300  
 cttgtccatg atctgaccgt tgggatcttt gagaagatgt ctggattgtg ctagaagctt 360  
 ccgttcccga gagcatctct tatttta 386

<210> 12999  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 12999

tcatcaacta cttgtttcca agggaaattc tataaacaga cctcccatct ttaatggagt 60

gggttaccac tactggagaa cccgcatgca aatctttata gaggcaatag atttaaatat 120  
 ttgggaagcc atagaacaag gaccttatgt tccctctata atagccggaa gtgcaacaat 180  
 agaaaaacct atagcagatt ggactgagga agaaagaaga ttagtacaat ataatttaaa 240  
 ggccaaaaat attattacat ctgccttagg aatagatgaa tactttanng gttcaaattg 300  
 tanaagtgt aacgatatgt gggatacact acaagtaaca catgaaggca caacatat 358

<210> 13000  
 <211> 100  
 <212> DNA  
 <213> Glycine max

<400> 13000

tcacacgatt atatcactta atcaggcgta ctaacaggcg atcaatggca ccattatctg 60  
 ccgtaataga atacaccacg ccctgtcctc attgattatg 100

<210> 13001  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13001

atcttgcctt tttaacctga aattgagaga naatgattat taaacacata aaatgagaat 60  
 acttaatat tattacctat actcaacaga aaatacttat aacactacaa aataaccata 120  
 aattacgaga gtttgatata atttatacaa gttttatata taaaagttag tcattttcac 180  
 caactaatag agaccaacca cacataaaga gcaagtgtgc aatagacaat tcttacattt 240  
 ctcttcttgc atctcaagct gaacgtatca tatgcatcga ccagaacaac gatggtcacg 300  
 ctttccttgc ggtgatgata agcaagatag gcattgatgg catctaagtc cactagcccg 360  
 ttacatttg gaaatagtat agtcccaaca ccaacaagct aatat 405

<210> 13002  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13002

ctagagaatg tgagccanac atgcctaagt tagtttaggc ttatgatggg atagggttaa 60  
 agtgatggta atttctttag agaattgtta agagatggta aattgtaagt cgagttataa 120  
 ccttcagct aaggaaatta tgcactatct attggcgggc tggcattgtc taaaataaga 180  
 ccgtttactc taaggagggg agtctatatt aagatgggtg gatccgtgta taaccagga 240  
 taaccaagat gtaccaattc tcaactaact actaagcttt tgtattacat cgtgtaacta 300  
 gttcacttat gcattcgtaa tgtctaattg tngacttcta gtgtttcctt gattttgggg 360  
 tgtcagcatg atgttgtgat gt 382

<210> 13003  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13003

ttctttgatg tatctntgtc cagaatccct ttgaaggagt ctctagccac cctgtcattg 60  
 atgcataaga actcccaaatt attttcccta agttatgcac cctgccaaaa ctgaattcag 120  
 tgctaattctg atctctaatt ctccagtaaa cataacttga gaaaaaaga tctttatctt 180  
 atccctgcta atcacttgac ccagctaga gcagaaactg ctacatctct ctaatgtgac 240  
 tcccaagtta cttgttgctt tgctatagat tcttttttgg tcttttgggg cctttaatgt 300  
 ttgatagtat gatggaattc tctagaactc ttgggtgaaa cttgaaatct atacctgcc 360  
 ttatgagaat gctaagaaca tatttactt 389

<210> 13004  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13004

gcataatcc tggaccagaa ttcataatcac tgaatatgta cttttgcac tctttccctt 60  
 tgcagggttag attgcatgtg gaggtgccat cattggtatg tgaggattgt tacaagaggg 120  
 tcatagcaca gtttatgaaa caagcaaagg tgctatggng ttacacttat gctctatata 180  
 attatataat attataatgt aatgtctctc tcatattctg gctcanagaa aatatatgca 240

tcanattata gntgtctgtg aatatgggtgc agctctatctt gtcgggtcacg aggaattcca 300  
gtgtctaaat ttgaaactat aactataact ataacctctc aat 343

<210> 13005  
<211> 378  
<212> DNA  
<213> Glycine max

<400> 13005

tgcttcccc tcatgatcac tcttgccctt tcatacactg ttttgggtac attgaaggca 60  
tattcataca ccctttttaca aaacaaagaa agtcagctga gtgtggaaat ggctttttgct 120  
ttgaaggcaa tttccgacca cactgcagtt aagggttctt ttattttttt ttttttttct 180  
tggctcagcc aaaggagaat atcattaata ggtaccagaa gtagccagat aatcacaaaa 240  
ctcatgataa gattcatggt ccagatata gtaattatac taacaataga aactatccta 300  
agtataccct gcaatcccac catgcactga atgaacaaat tattaacaca acaaagccaa 360  
gcataatgca tatcccaa 378

<210> 13006  
<211> 297  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13006

ntagtgcct taattntgat gcaatatttg acattcccat aatgtattcc ctgacatttc 60  
cttttccttg atacttcatg gaaatcaagt tctgaaggag agtacttggt tccatcttat 120  
ccctttttca aagcgctttt caatntcaac aaggaattct tcaccactag ttatatcatc 180  
tcaaacaatg ccccgaaaga cctcaagaat gtcatgctta atgatcataa gactcatgcg 240  
aattgaatga tccctcttct catgaagttt cctttgttca gaggtactgg agtccgt 297

<210> 13007  
<211> 400  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 13007

agcttttgtt cttcagccac caatccatta tcttgaaagg tttaggtccc caatcattgg 60  
 ttctagacct caataggatg gggcaatgat cagagaaatc tctatccaac acgaattgag 120  
 tagtatctag ccattgggac agccagtcac cagaaagaag gaacctatcc aatttgctca 180  
 tgacagtccc attgngtcta caccatgtga aatatctccc aacagaccta acctcctcaa 240  
 cctccatata tganatccaa gaattaaact cagagatgct agtaagtttt atcatacttc 300  
 atcttgctct tacagtngtt tttatcagca taggacacac ccaggtctct agcaatctcc 360  
 ctatgaagat cctcctcatt ctcanaataa ctattattga 400

<210> 13008  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13008

cggagatgcc tgccttagag acctgngatt ggtatcatag ttagttagta taatataata 60  
 tctaattatc tattcatatc ttctgagttt tcaaattggga ggagggagtc aactcagtca 120  
 agtttagaaa ttgtaggctc atcttaagaa agaaaaagaa acacaactca catggagcca 180  
 gtcaatacag caaatattac agtcaaaaacc ttgccttcag tatatccttt ctctattatc 240  
 attgttgcac caaacatata agccagacca taactgcaga taaaaacaaa gtagagcaaa 300  
 ccatatccca naccagaggc tagtgcctct tgcactccag tcttatatg 349

<210> 13009  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13009

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 tttccgaacc agtataaatc ttgtgtttgt cttcttcttc cctacactct ttactttcct 120  
 gctgtgcatt ntttatttcc gctntacttt tatctaagtt attgtttctg ttctttactt 180  
 tctcataact tagtagtaaa gccttattga atctagtaac attaagaagg attaattttt 240  
 aattagtcaa gacacattca taattaattc aaccctcctt tcttaattat tccgaggcca 300

cttgatccaa cacgaattat ggaggaggaa agaacaagca tagttaggtt ccttcgtggg 360  
 cttaatatgg aagtgaggga acaaggtgaa ctccttccat at 402

<210> 13010  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 13010

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 gctntacctt ctcttccatt ggtgtttctt cattnttctc catgtatctc ctcacatgtc 120  
 ttgttctaaa tgttgtaaac atgattcttt agagtttcca ccgattaaac ttgctataga 180  
 agttagattt gattntctat ggttcaaatt tcttgttctt gttcttgaac catgaattgt 240  
 gttgagttta agttccttta agttntgtct tgttattttt tggggctgaa acctaaacca 300  
 taaaattctt caaaaatatt aaagt 325

<210> 13011  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 13011

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 tttccctttc cttgttttga agctcactac aagccttaag tgaaaaacca tgatattacc 120  
 atatccttaa ggaatttttg agctctggaa ttgttttggg aataagtgtg gggagttttt 180  
 gtttcatttg acaacttggt ttgttggcta agcttcatga tgtaatttgg gccatactcg 240  
 atgtacattg tatattgagt aaatgttaga catgctgaat gaaattatgt ttctcaaaga 300  
 ccaaagagta aaaaataata aaaaaaatc ggataaagaa aaagataagc aataatgttg 360  
 agtgaataag atcttaaatg gcacacgatt gatgaaactc t 401

<210> 13012  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 13012

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cgatgttggg ttgacgcaac gtgcttggtg ccggcccttt cgggatcggg ggatagaact 120  
cgacatccct ttgagcataa tcttgagggt ctttggggac ttcttcaggc tgttgaggag 180  
gctctctttc aaggactgga gaagcaatat ggcccgcac gtcttgcaag acgggcggtg 240  
agtaattgtg cagcaatcca taacggtaag ccgctcggtt gtatcccagg tgagggctgc 300  
catagtgcc cagtgtgtcc ctccccgct ctactatg 338

<210> 13013

<211> 350

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13013

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tgcacagacc aaagttgcgt atgtaaaaa attgtatgac caagtgaagg tgcaaattgc 120  
aaagaagaat gaaagctatg ccaatcaagc ccaaaagaaa aggaaggaag tggacttga 180  
acccggtgat gatcttgac atttgacgac aaatgttctc caagaaggag ggaatgatga 240  
gaatcatgaa acatgccana tacagtctaa aggcccaagt ggagaatgac gaatgcccaa 300  
ttggataatg acaaatcccc cgagtggaga atgatgaatg cccaagtgga 350

<210> 13014

<211> 337

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13014

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ggtgagtata atgttagttc caccttcaat gtctcagact tatctctttt tgatgcagat 120  
ggagaatccg atttgaggac aaatccttct catgagggag agaatgatga tgacatgacc 180  
aagaacaagg gctaggatcc acttgaagga cttggaggac ctatgacaag ggctagaaca 240  
aggaaagcca aagaagctct tcaacaagtg ttgtccatac tatttgaata cacaccacg 300